



The Leading Supplier of Industrial & Commercial
SOLAR POWER SOLUTIONS
Solar Power Systems - The building blocks for a greener tomorrow

THINK ELECTRICAL

ECOBOXX PORTABLE SOLAR KITS



ECOBOXX 50

Ideal for having light and charging your phone


| Code | ECOBOXX 50 |
|-------------|--|
| Description | <ul style="list-style-type: none"> • 5W Solar Panel + Stand for daily battery maintenance • 2 x 3W super bright LED lights, with independant switches • 1 x USB Charging Port • 4Ah Lead Crystal Battery |

LED Light
8 hours
3W

Phone
8 hours
5W

Tablet
4 hours
10W

USB Fan
8 hours
5W



ECOBOXX 160

The All-In-One Value Kit, for Light & multiple charging, medium 12V Power & AC Inverter 75W


| Code | ECOBOXX160 |
|-------------|---|
| Description | <ul style="list-style-type: none"> • 75W 230VAC Modified Sine Wave Inverter, Built-in • 2 x 10W Solar Panel + Stand for daily battery maintenance • 2 x 3W super bright LED lights, with independant switches • 2 x USB Charging Ports • 13Ah Lead Crystal Battery |

LED Light
24 hours
3W

Phone
24 hours
5W

USB Fan
28hours
5W

Camping Fridge
1.5 hours
80W



ECOBOXX 160DC

The All-In-One Value Kit, for Light & Multiple Charging, medium 12V Power

| Code | ECOBOXX 160DC |
|-------------|---|
| Description | <ul style="list-style-type: none"> • 2 x 10W Solar Panel + Stand for daily battery maintenance • 2 x 3W super bright LED lights, with independant switches • 2 x USB Charging Ports • 12Ah Lead Crystal Battery |

LED Light
24 hours
3W

Phone
24 hours
5W

USB Fan
28hours
5W

Camping Fridge
1.5 hours
80W



Barber Kit

Business in a Box, 230V Power


| Code | BARBER KIT |
|-------------|---|
| Description | <ul style="list-style-type: none"> • 2 x 10W Solar Panel for daily battery maintenance • 2 x 3W super bright LED lights, with independant switches • 2 x USB Charging Ports • 12Ah Lead Crystal Battery • 1 x Multi-point Phone Charging Cable • Built-in Inverter 75W (max) • Hair Clipper • USB Fan • AC/DC Wall Charger |

Phone
24 hours
5W

USB Fan
28 hours
5W

Laptop
2.5 hours
65W AC

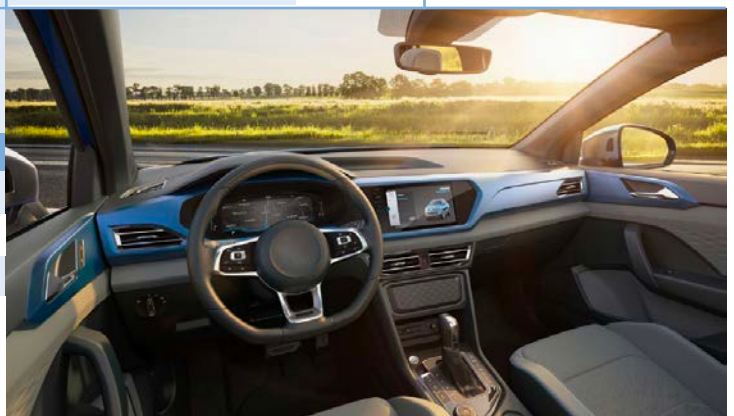
Radio
4 hours
30W AC




Modified Sine Wave Compact Inverter

Small size & easy connection for use with solar kits or in your vehicle

| Code | SG-PSI-150W |
|------------------|--|
| Continuous Power | 150W |
| Surge Power | 300W |
| Input | 12VDC (Car Lighter Plug) |
| Output | 1 x 3Pin Multi-standard (230VAC / 150W) 2 x USB-A (5V/2.1A Total) |




ACCESSORIES



ECOBOXX Lamp

| Code | ECO-LAMP-3W |
|----------------|--------------------------------------|
| Power Supply | 3W |
| Supply Voltage | 12VDC |
| Features | c/w DC Jack, Cable and On/Off Switch |



DC Connectors

| Code | Description |
|---------------|---|
| PP-15/45-BK/R | Anderson Connector Set Red + Black - 50A |
| XT60S-F-W | Female XT60S DC Connector with Wire - 30A |

NEW

PORTABLE BACK-UP UNIT



150W/160Wh



500W/500Wh



Portable Power Station - A versatile backup unit suitable for home back-up power and outdoor power source. It is compact and lightweight, with a handle that makes it portable

| Code | PBU-MS-150 | PBU-PS-500 |
|-------------------------------|--------------------------------------|---|
| AC Outputs | | |
| Rated Power | 150W | 500W |
| Output voltage | 230VAC (Modified sine wave) | 230VAC (Pure sine wave) |
| AC outlets | 1x 3-pin SA | 1x 3-pin SA |
| DC Outputs | | |
| 12VDC | 3x 2.1mm Barrel (10A tot. load) | 2x 2.1mm Barrel (5A tot. load) 1x Car Charger Socket (10A max.) |
| USB Outputs | 2x USB-A (5V/3.1A total load) | 2x USB-A (5V/3.1A total load) 1x USB-A QC3.0 1x USB-C PD (5-20V/45W max.) |
| Charging | | |
| 230VAC Adapter | 15VDC/30W | 24VDC/72W |
| PV Input | 13-22VDC/30W max. (1.4mm barrel) | 11-26VDC/120W max. (Anderson) |
| Battery | | |
| Type | Li-NMC | |
| Capacity | 162Wh | 505Wh |
| Cycle life | ≥500 Cycles @80% DOD | ≥500 Cycles @80% DOD |
| General Specifications | | |
| Physical Dimensions | 196 x 108 x 126mm / 1.6kg | 300 x 200 x 193mm / 5.8kg |
| Package Includes | AC power adaptor, Car charging cable | AC power adaptor, car charging cable, Travel pouch |

Portable Folding PV Panels

| Code | SLP-P60W | SLP-P120W |
|-------------|---|--|
| Voc | 23V | 23V |
| Outputs | 1 x Anderson: 18V (60W) 1 x USB-A QC: 5-12V (24W) 1 x USB-C PD: 5-15V (18W) | 1 x Anderson: 18V (120W) 1 x USB-A QC: 5-12V (24W) 1 x USB-C PD: 5-15V (45W) |
| Folded Size | 360 x 400 x 45mm | 520 x 405 x 50mm |
| Open Size | 1370 x 360 x 25mm | 1755 x 520 x 25mm |

NEW



- Smart battery management system
- LCD status display showing input and output power and battery state of charge
- Long lasting portable power
- Multiple output ports for use with a wide variety of devices

Portable Power Station

| Code | PBU-PS-1300 |
|-------------------------------|---|
| AC Outputs | |
| Rated Power | 1300W |
| Output voltage | 230VAC (Pure sine wave) |
| AC outlets | 2 x 3-pin SA |
| DC Outputs | |
| 12VDC | 2 x 2.1mm Barrel (5A tot. load) 1 x Car Charger socket (10A max.) |
| USB Outputs | 1 x USB-A (5V/3.1A) 2 x USB-A QC3.0 (5-9V/18W max.) 1 x USB-C PD (5-20V/60W max.) |
| Charging | |
| 230VAC Adapter | 24VDC/160W |
| PV Input (MPPT) | 12-26VDC/250W max (Anderson) |
| Battery | |
| Type | LiFePO4 |
| Capacity | 1254Wh |
| Cycle life | ≥2000 Cycles @80% DOD |
| General Specifications | |
| Physical Dimensions | 430 x 243 x 240mm / 17.5kg |
| Package Includes | AC power adaptor, car charging cable, Travel pouch |

SOLAR

PORTABLE POWER STATIONS



YZY-300WY



YZY-1000WH

Economical Portable Power Station

| Code | YZY-300WY | YZY-1000WH |
|-------------------------------|--|------------------------------|
| AC Outputs | | |
| Rated power | 300W | 1000W |
| Output voltage | 230VAC (Pure sine wave) | |
| AC outlets | 2 x 3-pin SA | |
| DC Outputs | | |
| 12VDC | 4 x 2.1mm barrel (10A tot. load) | |
| USB Outputs | 2 x USB-A (5V/2A) | 4 x USB-A (5V/2A), 2 x USB-C |
| Charging | | |
| 230VAC Adapter | 14.6V / 5A | 14.6V / 10A |
| PV Input | 18VDC / 50W max. | 18VDC / 150W max. |
| Battery | | |
| Capacity | 256Wh | 768Wh |
| Cycle life | ≥600 cycles | |
| General Specifications | | |
| Physical Dimensions | 235 x 150 x 166mm | 275 x 200 x 205mm |
| Package Includes | 2 x LED Lamps c/w 3m cable, AC power adaptor | |



DQ1208A500-1

Economical Portable Power Station

| Code | DQ1208A500-1 | DQ1208B1000-1 |
|-------------------------------|--|--------------------|
| AC Outputs | | |
| Rated power | 500W | 1000W |
| Output voltage | 230VAC (Pure sine wave) | |
| AC outlets | 2 x 3-pin SA | |
| DC Outputs | | |
| 12VDC | 2 x 2.1mm barrel (1A tot. load) | |
| USB Outputs | 2 x USB-A (5V/2A tot. load) | |
| Charging | | |
| 230VAC Adapter | 14.6VDC / 4A | 29.2VDC / 4A |
| PV Input | 18VDC / 90W max. | 36VDC / 180W max. |
| Battery | | |
| Capacity | 450Wh (12.8V 35Ah) | 690Wh (25.6V 27Ah) |
| Cycle life | ≥1000 cycles | |
| General Specifications | | |
| Physical Dimensions | 260 x 149 x 200mm | 300 x 188 x 288mm |
| Package Includes | 2x LED Lamps c/w 3m cable, AC power adaptor and Built in LED light | |

Bi-directional Portable Power Station with UPS Function

| Code | PBU-PS-P1000 |
|-------------------------------|--|
| AC Outputs | |
| Rated power | 1000W |
| Output voltage | 230VAC (Pure Sine wave) |
| AC outlets | 2 x 3-Pin SA |
| DC Outputs | |
| 12VDC | 1 x Car (Cigarette lighter) output (8.3A/100W) |
| USB Outputs | 4 x USB-A (5V/2.4A tot.load) 1 x USB-A QC (18W max.) 1 x USB-C PD (65W max.) Wireless charging (15W max.) |
| Charging | |
| 230VAC Adapter | Built-in Fast charger (IEC Inlet) |
| PV Input | 12-30VDC/300W max. |
| Battery | |
| Capacity | 1050Wh |
| Cycle life | ≥2000 cycles |
| General Specifications | |
| Physical Dimensions | 366 x 235 x 266mm |
| Package Includes | Solar input cables (Anderson and MC4), Car charging cable, AC input cable |



PBU-PS-P1000

NEW

PORTABLE POWER STATIONS



BP-EB3A

- UPS Function
- Built-in Fast Charger
- Built-in LED light
- APP for Remote Monitoring



Monitoring & Control App

Portable Power Stations with UPS function

| Code | BP-EB3A |
|-------------------------------|---|
| AC Outputs | |
| Rated power | 600W |
| Output voltage | 230VAC (Pure Sine wave) |
| AC outlets | 1 x 3-Pin SA |
| DC Outputs | |
| 12VDC | 1 x 12V/10A DC Car Port/Cigarette Lighter 2 x 12V/10A DC Barre |
| USB Outputs | 2 x 5V/3A USB-A 1 x 100W Max USB-C 1 x 15W Wireless Charging |
| Charging | |
| 230VAC Adapter | Built-in Fast Charger (230VAC inlet) |
| PV Input (MPPT) | 12-28VDC /200W Max MPPT Solar input 12V/24V 8A Car input |
| Battery | |
| Type | LiFePO4 |
| Capacity | 268Wh |
| Cycle life | ≥2500 cycles |
| General Specifications | |
| Physical Dimensions | 255 x 181 x 183mm |
| Package Includes | AC Input cable, Solar charging cable, User Manual, 1 x QC Card, 1 x Warranty Card |

Trolley Type Power Stations with UPS function



PS3000-ZA-UPS

- UPS Function
- Built-in Fast Charger
- Built-in LED light
- Charging Speed can be selected.

| Code | PS3000-ZA-UPS |
|-------------------------------|--|
| AC Outputs | |
| Rated power | 3000W |
| Output voltage | 230VAC (Pure Sine Wave) |
| AC outlets | 3 x (3-Pin SA) |
| DC Outputs | |
| 12VDC | 2 x 12.6VDC/3A Barrel Output, 1 x 12.6V Car Charger Socket (126W max) |
| USB Outputs | 2 x 5V/2.4A USB-A, 2 x 9V/2A USB-A 2 x 100W Max USB-C |
| Charging | |
| 230VAC Adapter | Built-in Fast Charger, 2000W Max |
| PV Input (MPPT) | 400W x 2 (13-45V/12A Max) 1 x 12V/24V 8A Car port input |
| Battery | |
| Type | LiFePO4 |
| Capacity | 2560Wh |
| Cycle life | ≥ 3600 cycles |
| General Specifications | |
| Physical Dimensions | 303 x 344 x 536mm |
| Package Includes | AC cable, Car charge cable, Car battery jumper cable and User manual |

SOLAR

PORTABLE POWER STATIONS



PBU-600W-UPS



PBU-1000W-UPS

- With built-in LED Light



- UPS Function
- Built-in Fast Charger

Portable Power Station with UPS Function

| Code | PBU-600W-UPS | PBU-1000W-UPS |
|-------------------------------|--|--|
| AC Outputs | | |
| Rated power | 600W | 1000W |
| Output voltage | 230VAC (Pure Sine wave) | 230VAC (Pure Sine wave) |
| AC outlets | 3 x (3-Pin SA) | 2 x (3-Pin SA) |
| DC Outputs | | |
| 12VDC | 12V/8.3A (100Wmax) Car Charger Socket/ Cigarette output x 1 | 12V/8.3A (100Wmax) Car Charger Socket/ Cigarette output x 1 |
| USB Outputs | USB-A: 5V/2.4A x 1 & QC18W x 1 USB-C: 5V/2.4A x 1 & PD65W x 1 | USB-A: 5V/2.4A x 2 & QC18W x 1 USB-C: PD100W x 1, PD45W x 2 |
| Charging | | |
| 230VAC Adapter | 230VAC (200W Charger) | 230VAC (200W Charger) |
| PV Input | 12V-30V/5A (200W) 12V-24V (200Wmax) Car port input | 12V-30V/12A (400W) 12V-24V (200Wmax) Car port input |
| Battery | | |
| Type | LiFePO4 | LiFePO4 |
| Capacity | 560WH | 800WH |
| Cycle life | ≥ 2000 cycles | ≥ 2000 cycles |
| General Specifications | | |
| Physical Dimensions | 463 x 289 x 366mm | 366 x 235 x 266mm |
| Package Includes | 1 x User Manual, 1 x Vehicle Charging Cable 1 x AC Adapter | 1 x User Manual, 1 x Vehicle Charging Cable 1 x AC Adapter |

Trolley Type Power Stations with UPS function

| Code | PBU-1500W-UPS | PBU-2000W-UPS |
|-------------------------------|--|--|
| AC Outputs | | |
| Rated power | 1500W | 2000W |
| Output voltage | 230VAC (Pure Sine wave) | 230VAC (Pure Sine wave) |
| AC outlets | 3 x (3-Pin SA) | 2 x (3-Pin SA) |
| DC Outputs | | |
| 12VDC | 12V/8.3A (100Wmax) Car Charger Socket/ Cigarette output x 1 Wireless Charger Output x 1 (15W) | 12V/8.3A (100Wmax) Car Charger Socket/ Cigarette output x 1 Wireless Charger Output x 1 (15W) |
| USB Output | USB-A: 5V/2.4A x 4 & QC18W x 2 USB-C: PD45W x 2 & PD100W x 1 | USB-A: 5V/2.4A x 4 & QC18W x 2 USB-C: PD45W x 2 & PD100W x 1 |
| Charging | | |
| 230VAC Adapter | 230VAC (800W Charger) | 230VAC (1500W Charger) |
| PV Input | 10V-50V/12A (400W) 12V-24V (12A) Car port input | 10V-50V/12A (400W) 12V-24V (12A) Car port input |
| Battery | | |
| Type | LiFePO4 | LiFePO4 |
| Capacity | 1444Wh | 2160Wh |
| Cycle life | ≥ 2000 cycles | ≥ 2000 cycles |
| General Specifications | | |
| Physical Dimensions | 463 x 289 x 366mm | 463 x 289 x 366mm |
| Package Includes | 1 x User Manual, 1 x Vehicle Charging Cable 1 x AC Adapter | 2 x User Manual, 1 x Vehicle Charging Cable 1 x AC Adapter |

Portable Power Stations with UPS function

| Code | RS-500W-UPS | RS-800W-UPS |
|-------------------------------|--|--|
| AC Outputs | | |
| Rated power | 500W | 800W |
| Output voltage | 230VAC (Pure Sine wave) | 230VAC (Pure Sine wave) |
| AC outlets | 2 x 3-Pin SA | 2 x (3-Pin SA) |
| DC Outputs | | |
| 12VDC | 3 x 12V/6A max Barrel Output | 3 x 12V/6A max Barrel Output |
| USB Output | 4 x USB-A (5V/3.3A) 1 x USB-C (5V- 12V/30W) | 4 x USB-A (5V/3.3A) 1 x USB-C (5V- 12V/30W) |
| Charging | | |
| 230VAC Adapter | Built-in Fast Charger (230VAC/300W max) | 230VAC/300W max |
| PV Input | - | - |
| Battery | | |
| Type | LiFePO4 | LiFePO4 |
| Capacity | 384Wh | 640Wh |
| Cycle life | ≥ 3000 cycles | ≥ 3000 cycles |
| General Specifications | | |
| Physical Dimensions | 275 x 181 x 200mm | 340 x 200 x 240mm |
| Package Includes | AC Power Cable, User manual | AC Power Cable, User manual |



- LED Lighting with SOS function
- Built-in Fast Charger

NEW

PORTABLE POWER STATIONS



- Robust Heavy Duty Structure
- UPS Function
- Built-in Fast Charger

Lithium Trolley with UPS function

| Code | GT-3000-UPS |
|-------------------------------|---|
| AC Outputs | |
| Rated power | 2400W |
| Output voltage | 230VAC (Pure Sine wave) |
| AC outlets | 4 x (3-Pin SA) |
| DC Outputs | |
| 12VDC | 2 x DC5521 Barrel Port (12V/3A) |
| USB Outputs | 2 x 5V/3A USB-A (QC3.0) 2 x 100W Max USB-C (PD3.0) |
| Charging | |
| 230VAC Adapter | Built-in Fast Charger (230VAC inlet) - 1200W |
| PV Input | 800W Max. Solar input |
| Battery | |
| Type | LiFePO4 |
| Capacity | 3072Wh |
| Cycle life | ≥ 2000 cycles |
| General Specifications | |
| Dimensions | 458 x 300 x 494mm |
| Package Includes | AC input/charging cable, Solar charging cable (Optional), Car charging Cable (Optional) and User Manual |

NEW

MOBILE BACK-UP SYSTEMS



ESS-3KW-2.56KWH

ESS-1.5KW-1.28KWH

- Built-in offgrid solar inverter with lithium battery
- Built-in Fast Charger (AC & Solar charger)
- Pre-programmed system (Plug & Play)
- Large wheels to facilitate easy mobility
- Reliable with enhanced surge/lightning protections
- Communication via USB/RS232
- Earth Leakage Breaker on the Output line

Trolley Type Power Stations with UPS function

| Code | ESS-1.5KW-1.28KWH | ESS-3KW-2.56KWH | ESS-3KW-5.12KWH |
|-------------------------------|----------------------------|-----------------------------|-------------------|
| AC Outputs | | | |
| Rated power | 1500W | 3000W | 3000W |
| Output voltage | 230VAC (Pure Sine Wave) | | |
| AC outlets | 4 x 3-Pin SA | | |
| DC Outputs | | | |
| 12VDC | - | - | - |
| USB Outputs | 2 x USB-A | 3 x USB-A | 3 x USB-A |
| Charging | | | |
| 230VAC Adapter | Built-in Charger (50A max) | Built-in Charger (100A max) | |
| PV Input Voltage | 30-85VDC 960W (PWM) | 30-115VDC 1500W (MPPT) | |
| Battery | | | |
| Type | Lithium | Lithium | Lithium |
| Capacity | 1280Wh | 2560Wh | 5210Wh |
| Cycle life | ≥ 2500 cycles | ≥ 2500 cycles | ≥ 2500 cycles |
| General Specifications | | | |
| Dimensions | 280 x 280 x 520mm | 330 x 380 x 605mm | 330 x 380 x 605mm |
| Package Includes | AC Power Cable | AC Power Cable | AC Power Cable |



DPiL is ideal for Recreational Vehicles, Camping and Outdoor Projects and as Source of Backup Power during an Emergency. You can monitor the DPiL via a Smart Phone App (Gen-mate inside)



DPiL Power Station

| Code | DP1000iL | DP2000iL |
|-------------------------------|---|--------------------------|
| AC Outputs | | |
| Rated power | 1000W | 2000W |
| Output voltage | 230VAC (Pure sine wave) | |
| AC outlets | 2x 3-pin SA | |
| DC Outputs | | |
| 12VDC | 1x 2.5mm Barrel (6A tot. load) 1x Car Charger socket (10A max.) | |
| USB Outputs | 2x USB-A (5V/2A) 2x USB-A (5V/1A) | |
| Charging | | |
| 230VAC Adapter | Built in Charger, IEC inlet | |
| PV Input | 13-140VDC / 600W max. | |
| Battery | | |
| Capacity | 2048Wh | |
| Cycle life | ≥2000 Cycles @80% DOD | |
| General Specifications | | |
| Physical Dimensions | 530 x 320 x 460mm / 34kg | 530 x 320 x 460mm / 36kg |
| Package Includes | AC input cord, Solar input cable c/w MC4 connectors, Car charging cable | |

SOLAR

NEW

SOLAR ENERGY STORAGE SYSTEM

- Pure Sine Wave 230VAC output
- MPPT solar input
- Programmable Charging & Load Priority
- Safe and reliable with smart fan control
- Real-time LCD display of device parameters and running status
- Input and output overload protection



ESS-1KW-LITHIUM
Mobile

Mobile Backup Units - LiFePO4 Battery

| Code | ESS-1KW-LITHIUM | ESS-1.5KW-LITHIUM | ESS-2KW-LITHIUM | ESS-3KW-LITHIUM |
|-------------------------------|---|-------------------|------------------------|-----------------|
| AC Outputs | | | | |
| Rated Power | 1000W | 1500W | 2000W | 3000W |
| Output voltage | 230VAC (Pure sine wave) | | | |
| AC outlets | 2x 3-pin SA | | | |
| DC outputs | | | | |
| 12VDC | 2x 2.1mm barrel (4A tot. load) | | | |
| USB Outputs | 2x USB-A (5V/2.4A tot. load), 2x USB-C (5V/3A, 9V/2A) | | | |
| Charging | | | | |
| 230VAC Adapter | Built-in Fast charger (IEC inlet) | | | |
| PV Input (MC4) | 30-160VDC / 1000W max. | | 30-160VDC / 1500W max. | |
| Battery | | | | |
| Capacity | 1024Wh | 1536Wh | 2048Wh | 3072Wh |
| Cycle life | ≥2000 cycles | | | |
| General Specifications | | | | |
| Physical Dimensions | 430 x 215 x 500mm | | 430 x 215 x 600mm | |
| Package Includes | AC Input cord | | | |

NEW

1 PH ENERGY STORAGE SYSTEM WITH TROLLEY

- UPS Function
- LCD Display of Battery Status and Working Mode
- **HYTR-1K-100AHL** includes a 100Ah LiFePO4 Battery
- **HYTR-1K 12VDC** is supplied without batteries. See pg 35-38 for batteries.



BC1

Back-up Trolleys with Hybrid Inverter

| Code | HYTR-1K-100AHL | HYTR-1K 12VDC |
|-------------------|--|-----------------|
| AC Outputs | | |
| Rated Power | 1000W | |
| Output Voltage | 230VAC/50Hz | |
| AC Outlets | 1 x 3-pin SA, 1 x Schuko, 1 x N-type Sockets | |
| Charging | | |
| 230VAC Adaptor | Built-in Charger (IEC Inlet) | |
| PV Input | 75V / 625W max | |
| Battery | | |
| Capacity | 100Ah/1280Wh | Excl. Batteries |
| Voltage | 12VDC | 12VDC |
| General | | |
| Dimensions | 540 x 465 x 240mm | |
| Packages Includes | AC Input Cable | |

- UPS Function
- LCD Display of battery status
- Supplied without batteries. See page 35-38 for batteries
- Battery type selectable: Lithium or Lead Acid
- No PV Input



BC1

Back-up Trolleys with Inverter Charger

| Code | BTR-1K 12VDC | BTR-2K 24VDC |
|-------------------------|------------------------|-----------------------|
| AC Outputs | | |
| Rated Power | 1000VA/600W | 2000VA/1200W |
| Output Voltage | 230VAC/50Hz | |
| AC Outlets | 1 x 3-pin SA | |
| Battery/Charging | | |
| Nominal Voltage | 12VDC | 24VDC |
| Battery Type | Lead Acid / Lithium | Lead Acid / Lithium |
| Charging Current | 10A / 15A (Selectable) | 7A / 10A (Selectable) |
| General | | |
| Dimensions | 500 x 565 x 240mm | |
| Packages Includes | AC Input Cable | |

SOLAR POWERED DEVICES

| | Solar Power Bank | Solar Lantern / Power Bank | Solar Lamp / Torch | Solar Lamp / Torch | Solar Power Bank | Portable Solar Backpack LED Light |
|------------------|---|---|---|---|--|---|
| | | | | | | |
| Code | WAKA-LX2 | SG-MYLAMP | SG-MYLITE | WAKA-L* | WAKA-P* | HHB-GZD |
| | <ul style="list-style-type: none"> New design with 2 PV Panels integrated for Faster Charging Wireless charging of compatible devices Powerful LED Light Long Battery Life Weatherproof Easy & Safe to use USB Port for Charging Devices Power Bank | <ul style="list-style-type: none"> Perfect for Load Shedding LED Brightness Control Feature Hang Lantern Anywhere with the Hook Lithium Power Bank Solar Panel for Charging Manual Charging via Handle USB Output for Device USB Charging Cable Incl. | <ul style="list-style-type: none"> New Revolutionary Technology Powerful LED Bulb & Torch with Turbo Batt. Solar Panel for Charging Bulb Long Battery Life Weatherproof Easy & Safe to use Hang Bulb anywhere with Hook Generous 3m Cable | <ul style="list-style-type: none"> Patented Sunboost Technology Highly Efficient Mono-Crystalline Solar Panel SOS Beacon 3 Light Levels | <ul style="list-style-type: none"> Solar mobile phone or tablet charger with LED light Large Lithium battery capacity Water, dust and shock resistant | <ul style="list-style-type: none"> Solar Panel charging / USB charging LED Brightness adjustable to 3 levels Hang on backpack to charge on the move Alarm light - Flashing Blue & Red |
| | | | | * Add Body Colour to Code: ●BK (Black) ●Y (Yellow) | *Add body colour to code: ●BK (Black/Blue), ●Y(Black/Yellow) | SOL2 |
| Solar Panel | 3W | 0.5W | 1.5W | 1W | 1.8W Mono | 3.5W/6V |
| Internal Battery | 8000mAh | 2200mAh | 1500mAh, 5yrs Batt Life | 500mAh | 10000mAh | 3.7V/4500mAh |
| LED | 45lm, 0.5W LED | 120lm Super Bright LED | 90lm Super Bright LED | 5 - 25lm LED | 120lm, 1W LED | 350lm (Max), 3.5W Max |
| Charging Time | ±15hrs (Solar) ≥6hrs (USB) | 3-4hrs (USB) Approx. 14hrs (Solar) | 6-8hrs (Solar) | 5-8hrs (Solar) | 55hrs (Solar) ≥6hrs (USB) | ≥ 3hrs (USB) Approx. 15hrs (Solar) |
| Working Time | 58hrs (LED Only) | 8hrs Full Brightness | 6hrs Full Brightness | 10 - 40hrs | 20hrs (LED Only) | Dependant on Mode: 4-12hrs |
| USB In/Out | 5V/1A / 5V/2.1A | 5V/1A | - | - | 5V/2.1A | 5V/2.1A |
| Includes | USB Cable & Carabiner | Crank Handle for Manual Charging | - | Handy Stand for Hands Free Use | c/w Cigarette Lighter function | - |

SOLAR DC POWER KITS

| | Solar Shed Light | Solar Torch | Solar Camp Light | Solar Desk Lamp | |
|---|----------------------------|-------------------------------|--------------------------------|----------------------------|---------------------------------|
| <ul style="list-style-type: none"> High Quality PV Super Bright LED Rechargeable Battery | | | | | |
| Code | BSL-P0807W | BSS-00107 | BSS-00207 | BSS-00213 | |
| Battery Type | Lithium | Lithium | Lithium | Lithium | |
| Battery Life | 5hrs full charge | 7hrs full charge | 6 / 24hrs full charge | 5 / 11 / 66hrs full charge | |
| Lamp Power/Lumen | 0.4W / 35lm | 0.6W / 50lm | 1.2 / 0.2W / 110/20lm | 0.7W / 45lm | |
| Accessories | PV Panel Holder, Pull cord | Lamp Holder | Carry Holder, Cell Accessories | Cell Accessories | |
| | Solar Lamp | 2 Solar Lamp Kit | 4 Solar Lamp Kit | Solar Home Light | Solar Junior 2 Light Kit |
| <ul style="list-style-type: none"> High Quality PV Super Bright LED Rechargeable Battery | | | | | |
| Code | MRD-401 | MRD-401/2 | MRD-401/4 | BSS-00504S | BSS-00311S |
| Battery Type | 3.7V / 4400mAH Lithium | 3.7V / 2000mAH Lithium / Lamp | 3.7V / 2000mAH Lithium / Lamp | Lithium | Lithium |
| Battery Life | 7 - 8hrs Full brightness | 3 - 4hrs Full brightness | 3 - 4hrs Full brightness | 72/18hrs full charge | 18/9hrs full charge |
| Lamp Power/Lumen | 1.7W / 120lm | 1.7W / 120lm per lamp | 1.7W / 120lm per lamp | 0.6W / 50lm | 0.6W / 50lm |
| Accessories | USB Cable, Mini USB | - | - | Cell Accessories | Cell Accessories |

SOLAR DC POWER KITS

| | Solar Light & Radio | Solar Junior Light | Solar Home Light 2 | Solar Home Light 4 | Solar Camping Light |
|---|--|--|---|--|---|
| - High Quality PV - Super Bright LED - Rechargeable Battery | | | Spare Lamp- SLL-L1515 | Spare Lamp- SLL-L1515 | |
| Code | BX-FD016-1F | BSS-00314LH | BSS-00504LH | BSS-01004LH | RW-SCL-20 |
| Battery Type | 4500mAh Lead Acid | Lithium | Lithium | Lithium | Lithium |
| Battery Life | High 7hrs / Low 22hrs | 7hrs full charge | 8/ 4 hrs full charge | 18/ 9 hrs full charge | High 2hrs / Low 6hrs |
| Lamp Power/Lumen | 0.9W / 100lm | 1.5W / 120lm | 1.5W / 140lm | 1.5W / 140lm | 1W/80lm 3W/210lm |
| Accessories | USB Port with 5 in 1 Charger, FM Radio | Cell Accessories | Cell Accessories | Cell Accessories | USBA to USBC cable (300mm) |
| | Solar Complete Home Kit | | Portable Home Kit | Solar Carry Bag | Solar Backpack Charger |
| - High Quality PV - Super Bright LED - Rechargeable Battery | | | 4 Lamps Cellphone not included | | |
| Code | JY-30 | JY-60 | MRD-426 | CB-03 | SC-17PRO |
| Battery Type | Lead Acid | Lead Acid | Lithium | Li-Ion | Li-Ion Battery, 5V 500mAh |
| Battery Life | 8 hrs full charge | 8 hrs full charge | 17hrs full charge | 4hrs full charge | 2hrs full charge |
| Lamp Power/Lumen | 3W / 290lm | 5W / 360lm | 2W / 160lm | - | - |
| Accessories | DC Fan, Cell Accessories | 15" TV, DC Fan, Cell Accessories | USB, Cell Charger | Mini Controller with 5V 500mA USB + LED Lights. Phone Connectors | 4 Adaptors for Mobile Phone, for Ipad or Camera |
| | Solar Power Bank | Solar Powerpack 3.0 | Inflatable LED Light | Solar Lantern/Torch | LED Solar Lantern |
| - High Quality PV - Super Bright LED - Rechargeable Battery | | | | Solar USB; Mains | |
| Code | ES-130 | BSS-00318 | FNA-SL1533 | SP-SCL01 | SL33205 |
| Battery Type | Lithium, 3000mAh | Lithium | Li-Polymer (100mAh) | 3.7V 600mAh | 900mAh Lithium |
| Battery Life | Dependant on device | High: 4hrs, Low: 11hrs | High: 6hrs, Low: 12hrs | ±6hrs with Full Charge | Up to 4hrs |
| Lamp Power/Lumen | - | 1W | 1W (90lm High) | 2-5W | 1.2W / 45lm |
| Accessories | iPhone/ iPod, Blackberry, Samsung | Cell Accessories | - | - | - |
| | LED Solar Lantern | Solar Lantern / Reading Light | NEW Solar LED Floodlight / Lantern | NEW Solar Portable Work Light IP65 | |
| - High Quality PV - Super Bright LED - Rechargeable Battery | | | • Solar Charger • 3 Light Modes + Red & Blue Flash • 180° Rotatable Bracket | | |
| Code | SP-CPL13A | IGLOW-1 | CPL-PL-50W | CPL-PL-100W | SWL-50-7-12 |
| Battery Type | 900mAh Lithium | 3.7V 2200mAh Lithium Ion | 3.7V, 5400mAh Li-ion | 3.7V, 7200mAh Li-ion | 3.2V/12000mAh LiFePO4 |
| Battery Life | Up to 4hrs | 6-8Hrs (Lantern) / 14Hrs (Reading) | Up to 6hrs | Up to 6hrs | 12/24/48hrs (Dependant on Mode) |
| Lamp Power/Lumen | 1.2W / 45lm | 50-85lm (Lantern) / 45lm (Reading) | 10W/580lm | 15W/780lm | 50W/650lm |
| Accessories | 5V USB Output (No Cable) | 5 in 1 Charging Cable Solar or AC Charging | 5V/1A USB Input/Output Ports | 5V/1A USB Input/Output Ports | 5V/1A USB Input/Output Ports |

SOLAR SECURITY LIGHTING

| | Flood Light IP44 | Courtyard Light IP44 | High Power Solar Light IP65 | Spot Light IP44 |
|---|----------------------|----------------------|-------------------------------|---|
| <ul style="list-style-type: none"> - High Quality PV - Rechargeable Battery - Super Bright LED | | | PIR 10m Detection & Timer | |
| Code | BSSJ12 | BSSJ22 | BSSDM02 | BSSJ09 |
| Battery Type | Lead Acid | Lead Acid | Lithium 3.6V / 24000mAh | Lithium 3.7V / 2000mAh |
| Battery Life | 8hrs (Fully charged) | 6hrs (Fully charged) | 24hrs(Fully charged) | Dependant on mode |
| Lamp Power/Lumen | 1.8W / 180lm | 3.5W / 378lm | 18W / 1485lm | 3.6W / 500lm |
| PV Panel | 2.3W Polycrystalline | 10W Polycrystalline | 12W Polycrystalline | 1.2W Polycrystalline |
| Features | PV Panel Holder | Mounting Kit | PIR, Day Night Sensor | Multiple Lighting Modes, PIR Motion Sensing, c/w Mounting Kit |

| | Flood Light IP65 | Solar Flood Light | Solar Wall Flood Light IP65 |
|---|--|--|--|
| <ul style="list-style-type: none"> - High Quality PV - Rechargeable Battery - Super Bright LED | NEW | NEW | NEW PIR Motion Detection |
| Code | SFL203 | SFL-S3W | SWL-20W |
| Battery Type | Lithium 3.7V / 3000mAh | Lithium 7.4V / 2600mAh | Li-ion 3.7V / 4000mAh |
| Battery Life | Up to 10hrs (fully charged) | Up to 10Hrs (Fully charged) | Dependant on Mode |
| Lamp Power/Lumen | 16W / 1600lm | 25W / 2500lm | 20W/2000lm |
| PV Panel | 1W Polycrystalline | 3W Polycrystalline | 1W Mono-Crystalline |
| Features | PIR Motion Sensing, Light on for 30s when motion is detected | PIR Motion Sensing. Light ON for 30s when motion detected. Replaceable Battery | Multiple Lighting Modes, Horizontally & Vertically Adjustable LED |

| | Multifunction Flood Lights IP65 | | Multifunction Flood light |
|---|--|--|--|
| <ul style="list-style-type: none"> - High Quality PV - Rechargeable Battery - Super Bright LED | <ul style="list-style-type: none"> • Built-in stand for portable use • PIR Motion Sensor | 180° PIR Motion Detection 6 - 8m Range | NEW |
| Code | LD-SFL-5W | LD-SFL-10W | LD-SSL-8W |
| Battery Type | Lithium 3.7V / 3000mAh | Lithium 7.4V/ 3000mAh | Li-ion 3.7V / 4000mAh |
| Battery Life | Dependant on Mode | Dependant on Mode | Dependent on Mode |
| Lamp Power/Lumen | 5W / 500lm | 10W / 1080lm | 8W / 950lm |
| PV Panel | 2.3W Polycrystalline | 6W Polycrystalline | 4.5W Monocrystalline |
| Features | 2 Working Modes: Motion Sensing / Always on, PV & Light Panel independantly adjustable | 4 Working Modes, PV & Light Panel independantly adjustable | 120° PIR Motion Detection. Range: ≤ 8m Multiple Mounting Options(Sput or Integrated) 2 Working modes. LED Lighting & PV Direction Adjustable |

| | Eco Flood Lights with Remote Control IP65 | | | | |
|---|---|-------------------|-------------------|-------------------|--------------------|
| <ul style="list-style-type: none"> - Slim ABS Housing - Replaceable Battery - Optical Lens to focus light where it is needed | | | | | Aluminium Body |
| Code | TK-03-20W | TK-03-60W | TK-03-100W | TK-03-200W | TK-03-300W |
| Battery Type | 3.2V / 5Ah | 3.2V / 10Ah | 3.2V / 15Ah | 3.2V / 20Ah | 3.2V / 40Ah |
| Battery Life | Dependant on Mode | Dependant on Mode | Dependant on Mode | Dependant on Mode | Dependant on Mode |
| Lamp Power/Lumen | 20W / 400lm | 60W / 800lm | 100W / 1200lm | 200W / 1800lm | 300W / 3200lm |
| PV Panel | 6W Poly | 10W Poly | 15W Poly | 20W Poly | 40W Poly |

SOLAR PERIMETER LIGHTING

| | Gutter/Wall Light IP44 | LED Solar Wall Lights IP65 | | | |
|---|--|--|---|---|--|
| <ul style="list-style-type: none"> - High Quality PV - Rechargeable Battery - Super Bright LED | Can be fixed to Gutter/Wall  | c/w Motion Sensor  | Sound Activated  |  | |
| Code | SLL-02* | RW-X12A | RW-X12B | FL-5-1 | |
| Battery Type | 1.2V 600mAh | 3.7V / 800mAh | 3.7V / 800mAh | Litium 3.7V / 2000mAh | |
| Working Time | Up to 6hrs (Fully charged) | 30sec (PIR Sensor) | Up to 8hrs (Fully charged) | Up to 36hrs (Fully charged) | |
| Lamp Power / Lumen | 0.2W / 21lm | 1W/100lm | 1W/100lm | 0.5W / 20lm | |
| PV Panel | 0.2W Polycrystalline | PIR 0.55W Amorphous | 0.55W Amorphous | 1W Polycrystalline | |
| Features | Can be fixed to Gutter/Wall *Add /3 to code for 3 pack | PIR Motion Detector | Sound Activated | Built in day night switching | |
| | Solar Alarm Light IP55 | Solar Wall Light c/w Motion Sensor IP65 | | | |
| <ul style="list-style-type: none"> - High Quality PV - Rechargeable Battery - Super Bright LED | NEW  | NEW  |  |  | |
| Code | KW-SNLN | B72306-16W | LD-SWL-03W-CL-1 | LSD-SWL-3.2W-B | |
| Battery Type | Lithium (3.7V/1200mAh) | Lithium 3.7V/2000mAh | Lithium 3.7V/1200mAh | Lithium 3.7V/2000mAh | |
| Working Time | Dependant on mode | Up to 24hrs (Fully charged) | Dependant on Mode | Dependant on Mode | |
| Lamp Power / Lumen | 2W/60LM | 16W / 700lm | 1.5W / 200lm | 3.2W / 400lm | |
| PV Panel | 0.8W Polysilicon | 1.3W Polycrystalline | 0.7W Polycrystalline | 2.3W Monocrystalline | |
| Features | PIR Motion Sensor (5-8m/125°) Siren (129dB), Flashing LED's | PIR Motion Sensing - 3-5m / 270° Easy Installation | 2 Selectable working modes and back lighting onto wall | 3 Selectable working modes and back lighting onto wall | |
| | Solar Wall Light c/w Motion Sensor IP44 | | LED Solar Light IP54 | | |
| <ul style="list-style-type: none"> - High Quality PV - Rechargeable Battery - Super Bright LED | NEW  | NEW  | NEW  | | |
| Code | SWL-JX001-60 | SWL-JX002-40 | SOL01-1.2W | | |
| Battery Type | Lithium 3.7V / 3000mAh | Lithium 3.7V / 1800mAh | Lithium 3.7V / 2200mAh | | |
| Working Time | 6-8Hrs (Fully charged) | 6-8Hrs (Fully charged) | 40Hrs (Fully charged) | | |
| Lamp Power / Lumen | 4.5W / 420lm | 3.5W / 330lm | 110lm | | |
| PV Panel | 2.5W Polycrystalline | 1W Polycrystalline | 1.2W Monocrystalline | | |
| Features | PIR Motion Sensing: Light up at full brightness when motion is detected, Low brightness when no motion is detected. Back lighting onto wall. | | PIR Motion Sensing, 2 Selectable Working Modes Colour Temp. selection by DIP Switch (3000K / 4000K / 5000K / 5700K) | | |
| | Solar Motion Light IP65 | LED Solar Light IP65 | | Solar Guard Light IP55 | |
| <ul style="list-style-type: none"> - High Quality PV - Rechargeable Battery - Super Bright LED | Top View  PIR 2m Detection & Timer |   |  Pole Excluded | | |
| Code | ESL-08 | LS48M-2 | LS48M-5 | BSS7CLPL | |
| Battery Type | Li-ion 3.7V/4000mAh | 6.4V/1500mA | 6.4V/3000mA | Lithium 11.1V/6000mAh | |
| Working Time | 40hrs (Dim) / 4hrs (Bright) | > 250 Motion Triggers | > 250 Motion Triggers | Up to 13hrs (Fully charged) | |
| Lamp Power / Lumen | 3W / 300lm | 5W / 200lm | 5W / 500lm | 4W / 480lm | |
| PV Panel | 3W Polycrystalline | 2W Amorphous | 5W Monocrystalline | 10W Polycrystalline | |
| Features | PIR Sensor. Off in daytime. Bright light at night | Automatic day night switching Light on when motion detected | | Day Night Sensor Wall or Pole Mounting | |

NEW

SOLAR GARDEN LIGHTS

| | Solar Garden Spikes | | | Solar Underwater Light |
|--------------------|---|-------------------------------------|--------------------------------------|--------------------------------------|
| | | | | |
| Code | TS-G0206-CW | TS-G2202-CCT | TS-S4205-RGB | TS-S4203-RGB |
| Battery Type | Ni-Mh 1.2V 1200mAh | Lithium 3.7V 2000mAh | Lithium 3.7V 4000mAh | Lithium 3.7V 2000mAh |
| Working Time | 6 hrs (Fully charged) | 6-9hrs (Fully charged) | 6-9hrs (Fully charged) | 6-9hrs (Fully charged) |
| Lamp Power / Lumen | 2W/180lm | 4W / 300lm | 4x3W | 3x1W |
| PV Panel | 1W Polycrystalline | 2W Polycrystalline | 5W Polycrystalline | 2W Polycrystalline |
| Protection Rating | IP44 | IP65 | IP44 (PV) / IP65 (LED) | IP44 (PV) / IP68 (LED) |
| Features | 2 selectable light levels: High, Low Adjustable Solar Panel | CCT Adjustable - 3000/4000/6000K | RGB Colour Changing | RGB Colour Changing |

| | Solar Pillar Light | Solar Wall / Pillar / Post Light | |
|---|---|-------------------------------------|---|
| | | | |
| Code | TS-S5306-CCT | JXL-SLL04-5W | JXL-SLL05-5W |
| Battery Type | Lithium 3.7V 2000mAh | Lithium 3.7V 4400mAh | Lithium 3.7V 4400mAh |
| Working Time | 6-8hrs (Fully charged) | Up to 12hrs | Up to 12hrs |
| Lamp Power / Lumen | 2W/30lm | 5W/400lm | 5W/400lm |
| PV Panel | 1.5W Polycrystalline | 5W Polycrystalline | 5W Polycrystalline |
| Protection Rating | IP65 | IP65 | IP65 |
| Features | CCT Adjustable - 3000/4000/6000K Size: 130x130x40mm | CCT Adjustable - 3000/4000/6000K | Single Colour: Cool White (4000K) Diamond Lens Pattern |
| Order mounting brackets or poles separately. Select the mounting bracket that suits your application: | | | |
| | | Code | Description |
| | | JXL-SLL-PILLAR | Pillar mounting bracket |
| | | JXL-SLL-POST | Mounting pole |
| | | JXL-SLL-WALL | Wall mounting bracket |

SOLAR LED BULKHEAD LIGHT IP54



Solar Bulkhead - c/w Remote Control

| Code | SL02-D-60W | SL02-D-100W |
|--------------------|---|---|
| LED Power | 60W | 100W |
| Lumen | 520-535lm | 770-860lm |
| Colour Temperature | 3000-6500K Adjustable | |
| Battery | 3.2V/5000mAh | |
| PV Panel | 6V/6W | 6V/8W |
| Dimensions | Body: Ø238 x 60mm PV: 173 x 260 x 16mm | Body: Ø280 x 64mm PV: 235 x 350 x 18mm |

- Remote Control - Time Control - Dimming - Colour Temperature

- c/w 5m cable for PV panel
- Working Time 10-12hrs (fully charged)

NEW

SOLAR GARDEN LIGHTS

| | Solar Wall Light IP44 | | | Solar Pillar Light IP44 |
|--|-----------------------|------------------|------------------|-------------------------|
| <ul style="list-style-type: none"> • 6-8 Hrs Normal Brightness • Alu. Body & Glass Lamp • Auto Turn, On/Off Dusk/Dawn | | | | |
| Code | JY-0012-A | JY-0007-A | JY-0008-A | JY-0012-B |
| Wattage | 2.4W | 3W | 4W | 2.4W |
| Lumens | 220lm | 130lm | 220lm | 130lm |
| Size | Ø220 x 530 | Ø260 x 400 | Ø280 x 360 | Ø220 x 550 |

SOLAR LIGHTS

| | Solar Garden Lights IP44 | | | Solar Post Tops IP44 | | |
|--|--------------------------|------------------|------------------|----------------------|------------------|------------------|
| <ul style="list-style-type: none"> • 6-8 Hours Normal Brightness • Aluminium Body & Glass Lamp Shade • Auto Turn On / Off Dusk & Dawn | | | | | | |
| Code | JY-0012-C | JY-0007-C | JY-0008-C | JY-0012-D | JY-0007-D | JY-0008-D |
| Wattage | 2.4W | 3W | 4W | 2.4W | 3W | 4W |
| Lumens | 130lm | 220lm | 220lm | 130lm | 220lm | 220lm |
| Size | Ø220 x 1400 | Ø260 x 1300 | Ø280 x 1300 | Ø220 x 1800 | Ø260 x 1750 | Ø280 x 1750 |

DC APPLIANCES

| | DC TV | DC Ceiling Fan | DC Fridge/Freezer |
|----------------|----------------------------------|--|--|
| | | | |
| Code | JY-60-TV | SLE-F2001HD | SLA-0145 |
| Rated Power | - | 20W | 45W |
| Voltage | 12VDC/ 230VAC | 12VDC | 12/ 24VDC |
| Specifications | 15" Colour LCD TV - Antenna excl | Metal body 3 blades, 1 speed | 45ℓ capacity, Temp: -10°C to 18°C |
| | DC Fan | Solar Floor Standing Fan | Solar Desk Fan |
| | | | |
| Code | SF-D6609 | SF-FLOOR-15W | SF-DESK-15W |
| Power | 10W | 15W | 15W |
| Battery | - | 7.4V / 4400mAh | 7.4V / 4400mAh |
| PV Panel | - | 12W Polycrystalline | 12W Polycrystalline |
| Working time | - | 5-12H | 5-12H |
| Size | 9" | Ø370 x 420mm | Ø345 x 395mm |
| Features | 3 Blades, 2 Speed | Can be charged using Solar or AC adapter Electronic speed control | Can be charged using Solar or AC adapter 3-speed with oscillation |

SOLAR

LED SOLAR LAMPS

Solar Garden Lights IP44

| | | | | | | |
|---|-----------------|-------------------|-------------------|-------------------|------------------|--|
| <ul style="list-style-type: none"> Batteries Included Height does not include spike | | | | | | |
| | Code | RW-SF-03-8 | RW-SF-03-2 | RW-SF-03-4 | RW-SLS004 | E2009 |
| Size (mm) | 320H x 115Ø | 455H x 120Ø | 325H x 125Ø | 360 x 115Ø | 390H x 130Ø | 1 Litre Consol Jar |
| Type | 1 x LED | 1 x LED | 1 x LED | 1 x LED | 1 x LED | 4 x LED |
| Batteries | 1 x NiMh 600mAh | 1 x NiMh 600mAh | 1 x NiMh 600mAh | 1 x NiMh 600mAh | 1 x NiMh 600mAh | 2x1.2V 600mAh AAA |
| Material | Plastic | Plastic | Plastic | Stainless Steel | Stainless Steel | Glass |
| <ul style="list-style-type: none"> Batteries Included Height does not include spike | | | | | | <p>3in1 With Mosquito Repeller Lawn & Table Light</p> |
| | Code | RW-SLS001 | RW-SLS002 | RW-SLS003 | SDBX115 | ESL-10 |
| Size (mm) | 307.5H x 150Ø | 480H x 170Ø | 365H x 125Ø | 420H x 170Ø | 800mm (H) | 510(H) x 110Ø |
| Type | 1 x LED | 1 x LED | 1 x LED | 1 x LED | 1 x LED | 1 x LED |
| Batteries | 1 x NiMh 600mAh | 1 x NiMh 600mAh | 1 x NiMh 600mAh | 1 x NiMh 600mAh | Li-ion Battery | Li-ion Battery 450mAh |
| Material | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel | Stainless Steel |

Stainless Steel In-ground Series IP44

| | | | | | | |
|--------------------|-----------------|-------------------|-------------------|---------------------|------------------|-----------------|
| Batteries Included | | | | | | |
| | Code | RW2LED-120 | RW3LED-120 | SDDM002 | SDDM002-2 | ZH-03-W |
| Size (mm) | 120Ø x 35D | 120Ø x 35D | 125 x 125 | 125 x 125 | Ø50 x 35 | 120Ø x 35D |
| Type | 2 x White LED | 3 x White LED | 4 x White LED | RGB colour changing | 1 x White LED | 1 x LED |
| Batteries | 1 x NiMh 600mAh | 2 x NiMh 600mAh | 1 x NiMh 600mAh | 1 x NiMh 600mAh | 1 x NiMh 350mAh | 1 x NiMh 600mAh |

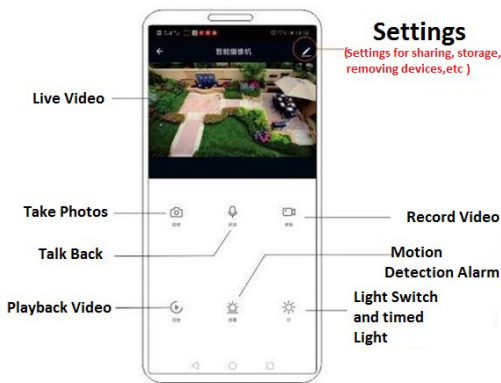
In-Ground IP68

Paving Lamp IP44

| | | | | |
|------------------|------------------------------------|------------------|-------------------------------|--------------------------------------|
| | Plastic Floating Lamps IP67 | | Plastic Spot Lamp IP67 | Flame Effect Torch Spike IP65 |
| | | | | |
| Code | RW-SLB003 | RW-SLB002 | RW-SLP006 | BF-SGL-1W |
| Size (mm) | 120Ø | 160Ø | 160D x 85W x 330H | 1000H x 137Ø |
| Type | 2 x LED | 2 x LED | 1 x LED | Flame Effect LED 1W |
| Batteries | 1 x NiMh 600mAh | 1 x NiMh 600mAh | 1 x NiMh 600mAh | 1 x LiPO 2000mAh |

NEW

SOLAR CAMERA SECURITY FLOODLIGHT

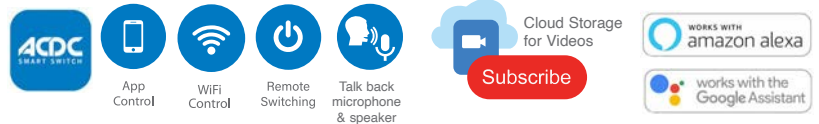


Solar WiFi Camera Light - 82 LED pcs | Daylight | Beam Angle 160°

| | |
|----------------------------|--|
| Code | MJ-01W-100W |
| Camera Floodlight | |
| LED Power/Lumens | 100W/800lm (fully charged) |
| Battery | 3.2V / 12000MAh (LifePO4) |
| Camera | 1080P HD with full Colour Night Vision |
| Dimensions - L x W x D(mm) | 217 x 179 x 45 |
| Solar Panel | |
| Solar Panel | 5V/18W Polycrystalline |
| Dimensions - L x W x D(mm) | 350 x 350 x 17 |

Functions

- LED light output will be gradually reduced as the battery is depleted
- Motion detection alarm, multi-angle adjustable
- Supports SD card (**not included**) & Cloud Storage (**subscription fee to be paid in app**)
- Supports Video Playback function
- Supports multiple remote viewers at the same time
- Remote Control for Lighting modes:
 1. Always On or 4hrs High Brightness + Motion Sensor
 2. Timer Function: 8H,5H, 3H + Brightness Change + Auto on/off
 3. Manual Brightness Adjustment



NEW

SOLAR STREET LIGHT C/W CAMERA IP65



Solar Street Lights c/w Camera

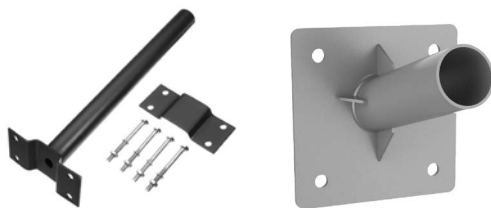
| Code | BS-SR02-WIFI | BS-SR02-4G |
|---------------|-----------------------|-------------------------------|
| LED Power | 60W (150lm/W) | 60W (150lm/W) |
| Solar Panel | 60W Polycrystalline | 60W Polycrystalline |
| Battery | Lithium 12V/30Ah | Lithium 12V/30Ah |
| Colour Temp | 6000K | 6000K |
| Communication | Wifi / Wired Ethernet | 4G GSM- Sim Card not included |

- LED Beam Angle: 120 x 50°
- Camera Specs: Resolution: 1080p | 4mm Lens | Automatic Night Vision & IR Cut Filter
- **Note: Pole not included**

SOLAR LIGHTING ACCESSORIES

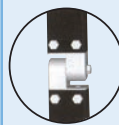
For use with light weight street lights

NEW

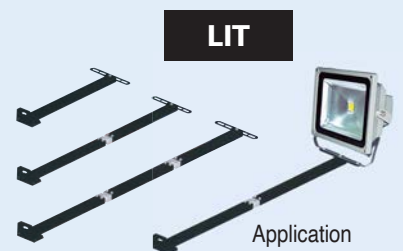


| Code | ST-BR-POLE | ST-BR-WALL |
|-------------|---|---|
| Description | Pole mount for Light Weight Street Lights | Wall mount for Light Weight Street Lights |
| Spigot Size | Ø50mm | Ø50mm |

Powder coated black. Light fitting excluded.



Joints can rotate through 270°



| Code | JM-ZJ-01 | JM-ZJ-02 | JM-ZJ-03 |
|--------------------|-----------------|-------------------------------|-------------------------------|
| Description | 600mm fixed arm | 1200mm hinged arm (2 x 600mm) | 1800mm hinged arm (3 x 600mm) |
| Max Fitting Weight | 32kg | 14kg | 14kg |

ALL-IN-ONE SOLAR POST-TOP LIGHT



Intelligent outdoor lighting system. Combines a high efficiency solar panel, controller, high-capacity lithium-ion battery & LED light into a compact housing. Smaller, lighter, higher efficiency and easy installation.

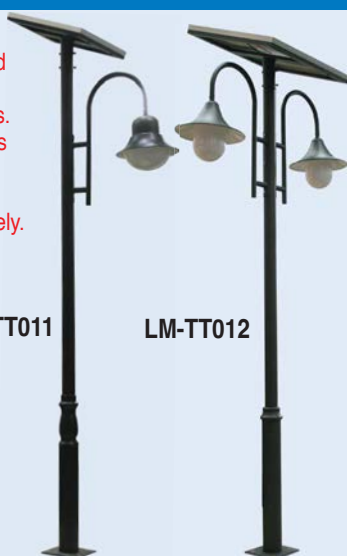
| Code | AI-5L-8N |
|--------------|---------------------------------|
| Solar Panel | 15.6W Polycrystalline |
| LED Power | 9W / 900lm |
| Battery | 3.7V / 26000mAh Lithium |
| Control Mode | Daylight Switching |
| Light Output | 5hrs @ 100% then 25% until dawn |
| Endurance | 3 nights when fully charged |
| Size | Ø526 x 163mm |

- Easy Installation. No cabling required
- Lithium-ion battery inside to extend product life
- Light output automatically controlled
- Modular design
- Compact and light weight design
- Rustproof, dustproof and waterproof

SOL2

SOLAR GARDEN / AREA LIGHTING IP65

Note: Supplied without batteries. Batteries to be ordered separately.



LM-TT011

LM-TT012

Solar Garden Lights

| Code | LM-TT011 | LM-TT012 |
|--------------|----------------------|----------------------|
| Lamp Power | 15W | 12W x 2 |
| Solar Panel | 40W / 18V | 70W / 18V |
| Controller | 12V / 5A | 12V / 5A |
| Battery | 12V / 45Ah (SY12045) | 12V / 80Ah (SY12080) |
| Pole Height | 3m (Included) | 3m (Included) |
| Battery Life | Up to 8hrs | Up to 8hrs |

- Self contained units for parks and housing developments
- Easy to install and low maintenance
- c/w Battery Box

SOL2

Solar Garden Lights with Built-in Day/Night Switching Function

Note: Supplied without batteries. Batteries to be ordered separately.



| Code | SGL-A-3501 | SGL-A-3502 | SGL-A-3505 | SGL-B-4001 | SDGG307 |
|---------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Height | 4m | 4m | 4m | 4m | 2.2m |
| Light Source | 9W LED | 9W LED | 9W LED | 2 x 9W LED | 1.2W LED |
| Luminous Flux | 800lm | 800lm | 800lm | 2 x 800lm | 80lm |
| Solar Panel | 35W Monocrystalline | 35W Monocrystalline | 35W Monocrystalline | 40W Monocrystalline | 3.5W Monocrystalline |
| Battery | 12V/45Ah (SY12045) | 12V/45Ah (SY12045) | 12V 45Ah (SY12045) | 12V/45Ah (SY12045) | 3.2V/6Ah Lithium |
| Working Time | 10hrs per day | 10hrs per day | 10hrs per day | 10hrs per day | 8hrs per day |
| Endurance | Up to 4 days | Up to 4 days | Up to 4 days | Up to 4 days | Up to 5 days |

COMPACT SOLAR STREET LIGHTING IP65



- Ideal for Eco Estates
- All in one Battery, Solar Panel & LED
- Colour Temperature: 6000-7000K
- Low cost installation - No cabling required
- Light is dim when no movement is detected
- Light output is increased when a person is detected by PIR Sensor
- Working Time is Estimated and will be affected by local conditions

• Note: Pole not included

| Code | LS48-5 | LS48-8 | LS48-10 | LS48-40 |
|---------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| LED Power | 5W | 8W | 10W | 40W |
| Solar Panel | 12W | 18W | 30W | 60W |
| Lumen Bright Mode | 420lm | 720lm | 1100lm | 4400lm |
| Lumen Dim Mode | 210lm | 210lm | 350lm | 1100lm |
| Working Time | 10hrs Bright 30hrs Dim | 10hrs Bright 30hrs Dim | 10hrs Bright 30hrs Dim | 10hrs Bright 30hrs Dim |
| Installation Height | 3 - 4m | 3 - 4m | 3 - 4m | 5 - 7m |
| Distance btwn Poles | 8 - 10m | 8 - 10m | 8 - 15m | 20 - 25m |
| Battery | 12.8V/6Ah | 12.8V/6Ah | 12.8V/9Ah | 12.8V/27Ah |
| Size - LxWxD (mm) | 400x320x50 | 400x320x50 | 710x350x55 | 1080x325x140 |

NEW

SOLAR STREET LAMPS IP65



ISL-15-20-150

ISL-25-33-230

ISL-40-45-300

| Code | ISL-8-16-75 | ISL-15-20-150 | ISL-25-33-230 | ISL-40-45-300 | ISL-60-75-600 | ISL-80-93-825 |
|---------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| LED Power | 8W | 15W | 25W | 40W | 60W | 80W |
| Solar Panel | 16W | 20W | 33W | 45W | 75W | 93W |
| Lumen Bright Mode | 800lm | 1500lm | 2500lm | 4000lm | 6000lm | 8000lm |
| Lumen Dim Mode | 320lm | 600lm | 1000lm | 1600lm | 2400lm | 2400lm |
| Working Time | 8-12hrs Bright 20-24hrs Dim | 8-12hrs Bright 20-24hrs Dim | 8-12hrs Bright 20-24hrs Dim | 8-12hrs Bright 20-24hrs Dim | 8-12hrs Bright 20-24hrs Dim | 8-12hrs Bright 20-24hrs Dim |
| Installation Height | 3 - 4m | 3 - 5m | 5 - 6m | 5 - 7m | 6 - 8m | 6 - 8m |
| Distance btwn Poles | 8m | 10m | 12m | 15m | 20m | 20m |
| Battery | 12.8V/6Ah | 12.8V/12Ah | 12.8V/18Ah | 12.8V/24Ah | 12.8V/48Ah | 12.8V/78Ah |
| Size - LxWxD (mm) | 465 x 338 x 78 | 630 x 338 x 148 | 875 x 338 x 148 | 1120 x 338 x 148 | 1120 x 465 x 153 | 1120 x 465 x 153 |

- All in one Battery, Solar Panel & LED
- Low cost installation - No cabling required
- Compact and Long Lasting Lithium Battery
- Aluminium Housing

- Colour Temperature: 6500K
- Working Time is Estimated and will be affected by local conditions
- Light is dim when no movement is detected

- Light output is increased when a person is detected by PIR Sensor

• Note: Pole not included

NEW

SOLAR STREET LIGHTS IP65

Low Cost Integrated Solar Street Lights

- All in one
- Light weight ABS housing
- PIR motion sensing to extend battery life
- Working time is estimated and will be affected by local conditions

• **Note: Pole not included**



ST-S20



ST-S40



ST-S60



ST-S90

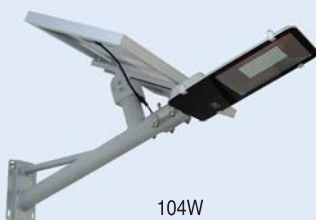


ST-S120

| Code | ST-S20 | ST-S40 | ST-S60 | ST-S90 | ST-S120 |
|---------------------|----------------|----------------|----------------|----------------|----------------|
| LED Power | 20W | 40W | 60W | 90W | 120W |
| Solar Panel | 7W | 8W | 12W | 18W | 18W |
| Lumen Bright Mode | 360lm | 750lm | 1350lm | 1850lm | 2400lm |
| Working Time | 18-20 Hours | 18-20 Hours | 18-20 Hours | 18-20 Hours | 18-20 Hours |
| Installation Height | 2 - 3m | 2 - 3m | 2 - 3m | 3 - 4m | 3 - 4m |
| Battery | 3.2V/5Ah | 3.2V/5Ah | 3.2V/12Ah | 3.2V/18Ah | 3.2V/22Ah |
| Size - LxWxD (mm) | 410 x 220 x 60 | 305 x 185 x 65 | 410 x 190 x 65 | 600 x 190 x 65 | 745 x 235 x 55 |

NEW

SOLAR STREET LIGHTS IP66



104W



50W

| Code | LL-407 | LL-603 |
|-----------------------|----------------------------|------------------|
| LED Power | 104W | 50W |
| Lumen Bright Mode | 2340lm | 2600lm |
| Solar Panel | 30W | 50W |
| Working Time | 12hrs (4hr 100% + 8hr 30%) | |
| Installation Height | 4-6m | 5-7m |
| Battery | 3.2V / 36Ah | 3.2V / 60Ah |
| Solar Panel Size (mm) | 355 x 650 x 30mm | 480 x 690 x 30mm |

NEW

SOLAR STREET LIGHTS IP65



Includes a Remote Controller



100W



150W



200W



300W

| Code | RYS-SD01-100W | RYS-SD01-150W | RYS-SD01-200W | RYS-SD01-300W |
|-----------------------|----------------|----------------|----------------|----------------|
| LED Power | 100W | 150W | 200W | 300W |
| Lumen Bright Mode | 1300lm | 1950lm | 2600lm | 3250lm |
| Solar Panel | 20W | 25W | 30W | 35W |
| Working Time | Up to 12 Hours | Up to 12 Hours | Up to 12 Hours | Up to 12 Hours |
| Installation Height | 3-4m | 4-5m | 4-6m | 4-6m |
| Battery | 3.2V/15Ah | 3.2V/20Ah | 3.2V/25Ah | 3.2V/30Ah |
| Lamp Size (mm) | 500 x 213 x 50 | 500 x 213 x 50 | 500 x 213 x 50 | 500 x 213 x 50 |
| Solar Panel Size (mm) | 450 x 350 x 17 | 530 x 350 x 17 | 600 x 350 x 17 | 630 x 350 x 17 |

Features

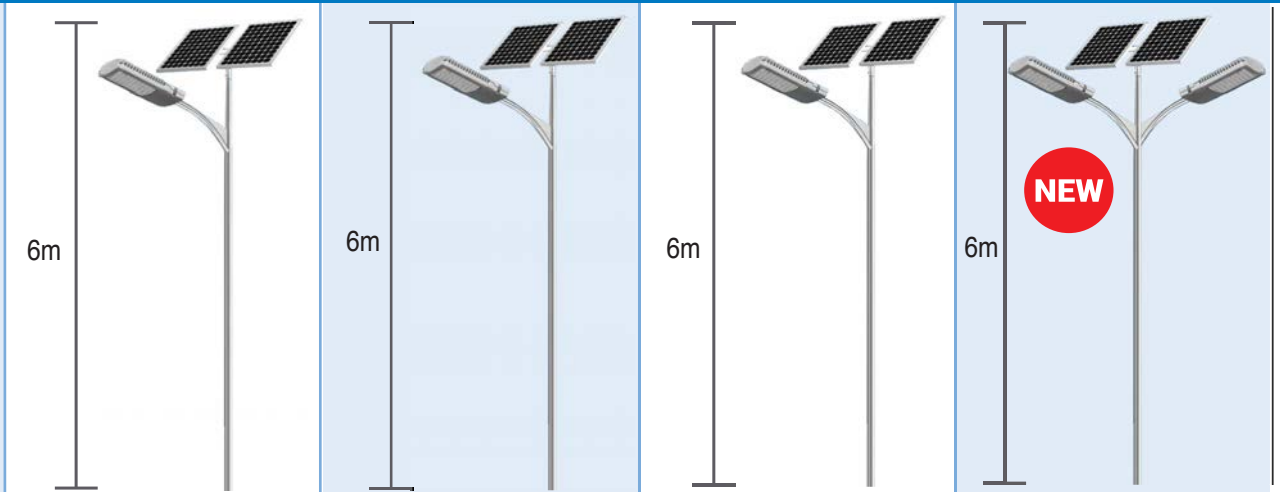
- 5730 SMD LED chip, Beam angle: 70 x 140°
- Aluminium Housing

• c/w Remote Control to control Light Output & Timing Functions

• **Note: Pole not included**

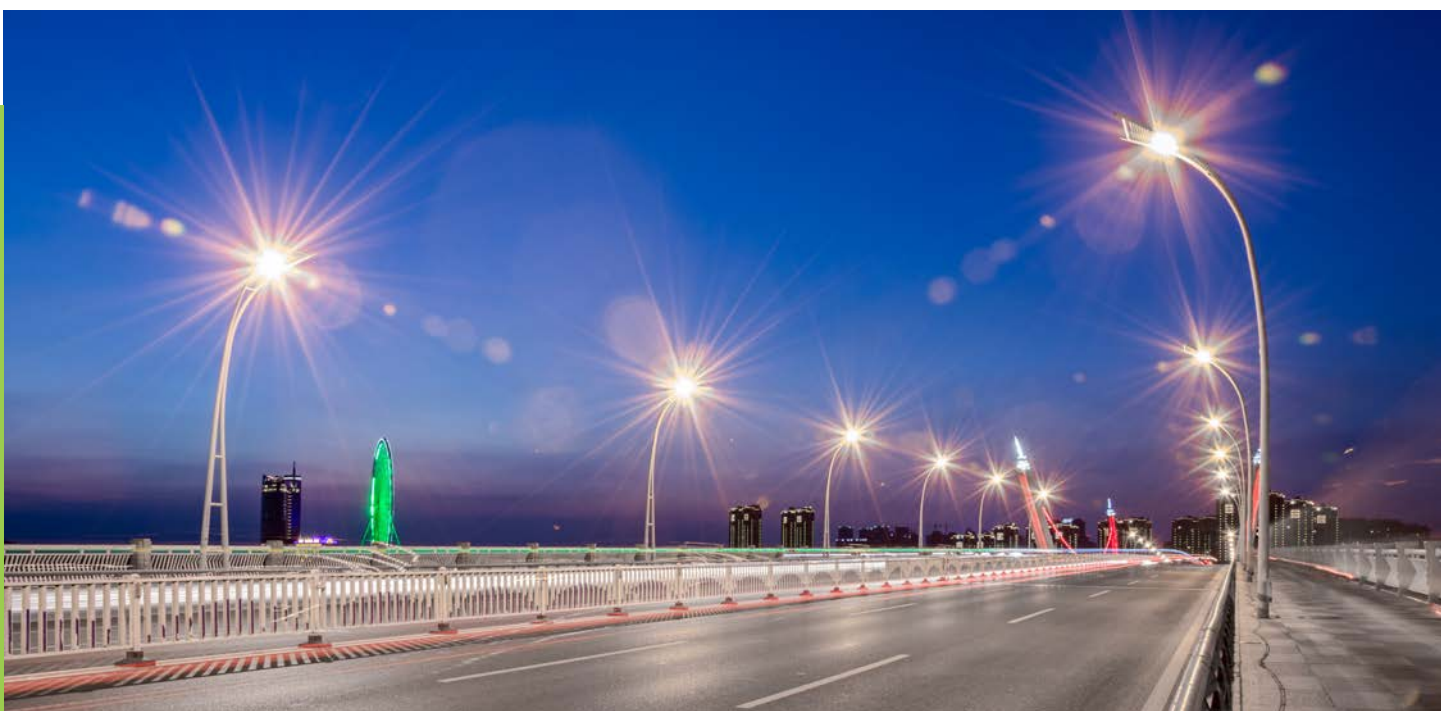
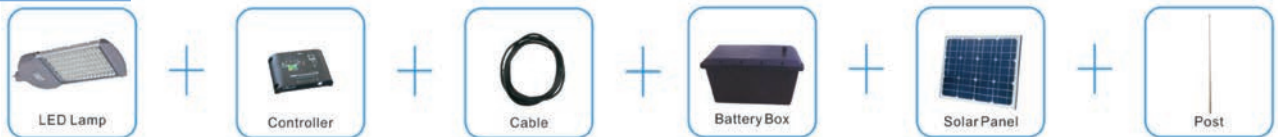
SOLAR STREET LAMPS IP65

Note:
Supplied
without
batteries.
Batteries
to be
ordered
separately.



| Code | SL-30W | SL-60W | SL-90W | SL-90W-2 |
|------------------|---|---|---|---|
| Light Source | 30W LED Lamp | 60W LED Lamp | 90W LED Lamp | 2 x 90W LED Lamp |
| Luminous Flux | 2700lm | 5400lm | 10500lm | 2 x 10500lm |
| Colour Temp | 6500K (Daylight) | 6500K (Daylight) | 6500K (Daylight) | 6500K (Daylight) |
| Housing material | Tempered glass and Die-cast Aluminium | Tempered glass and Die-cast Aluminium | Tempered glass and Die-cast Aluminium | Tempered glass and Die-cast Aluminium |
| Solar Panels | 40W*2pcs Mono Crystalline | 80W*2pcs Mono Crystalline | 120W*2pcs Mono Crystalline | 240W*2pcs Mono Crystalline |
| Battery | 12V/65AH (SY12065) | 12V/65AH x 2pcs (SY12065) | 12V/100AH x 2pcs (SY120102) | 12V/200AH x 2pcs (NSB200-12) |
| Controller | 10A - 12/24V Auto Sensing Charge Controller / LED Driver Intelligent Light & Time Control | 10A - 12/24V Auto Sensing Charge Controller / LED Driver Intelligent Light & Time Control | 15A - 12/24V Auto Sensing Charge Controller / LED Driver Intelligent Light & Time Control | 20A - 12/24V Auto Sensing Charge Controller / LED Driver Intelligent Light & Time Control |
| Battery Box | Underground PVC Plastic | Underground PVC Plastic | Underground PVC Plastic | Underground PVC Plastic |
| Pole Included | 6m, steel, hot dip galvanised | 6m, steel, hot dip galvanised | 6m, steel, hot dip galvanised | 6m, steel, hot dip galvanised |
| Working time | 8hrs per day | 8hrs per day | 8hrs per day | 8hrs per day |
| Max Endurance | 3 consecutive rainy days | 3 consecutive rainy days | 3 consecutive rainy days | 3 consecutive rainy days |

Components included



SOLAR PV MODULES

(Poly) Multicrystalline PV Module (Lower cost)

AC/DC offers a range of Photovoltaic panels designed for both On-Grid and Off-Grid applications. All panels are constructed using the highest quality components and are CE certified according to the IEC61215:1995 standard. All AC/DC panels are covered by our 25 year limited linear power warranty.



| Code | Maximum Power (Pmax) | Voltage @ Pmax (Vmp) | Current @ Pmax (Imp) | Open-Circuit Voltage (Voc) | Short-Circuit Current (Isc) | Dimensions L x W x H |
|-----------|----------------------|----------------------|----------------------|----------------------------|-----------------------------|----------------------|
| SLP005-12 | 5W | 17.20V | 0.29A | 21.60V | 0.31A | 195 x 275 x 15mm |
| SLP010-12 | 10W | 18.30V | 0.55A | 21.98V | 0.59A | 275 x 355 x 18mm |
| SLP020-12 | 20W | 18.30V | 1.10A | 21.96V | 1.17A | 510 x 355 x 25mm |
| SLP030-12 | 30W | 17.5V | 1.72A | 21.1V | 1.82A | 610 x 350 x 25mm |
| SLP040-12 | 40W | 18.49V | 2.17A | 22.19V | 2.30A | 620 x 515 x 25mm |
| SLP050-12 | 50W | 17.50V | 2.86A | 21.20V | 3.01A | 670 x 530 x 25mm |
| SLP060-12 | 60W | 18.01V | 3.36A | 21.61V | 3.70A | 650 x 665 x 30mm |
| SLP080-12 | 80W | 18.25V | 4.40A | 21.96V | 4.69A | 905 x 678 x 30mm |
| SLP090-12 | 90W | 18.36V | 4.92A | 22.00V | 5.25A | 1008 x 678 x 35mm |
| SLP100-12 | 100W | 18.00V | 5.56A | 22.6V | 5.87A | 1000 x 670 x 30mm |
| SLP120-12 | 120W | 18.81V | 6.38A | 22.58V | 7.02A | 1250 x 678 x 35mm |
| SLP140-12 | 140W | 18.08V | 7.75A | 21.70V | 8.22A | 1485 x 668 x 35mm |
| SLP270-24 | 270W | 31.1V | 8.69A | 38.4V | 9.06A | 1650 x 992 x 35mm |
| SLP290-24 | 290W | 37.08V | 7.83A | 44.32V | 8.37A | 1956 x 992 x 40mm |

Monocrystalline PV Modules

| | | | | | | |
|------------|------|--------|--------|--------|--------|--------------------|
| SLP090S-12 | 90W | 18.54V | 4.86A | 22.14V | 5.46A | 1195 x 541 x 35mm |
| SLP330S-24 | 330W | 30.00V | 11.00A | 36.00V | 11.77A | 1640 x 992 x 35mm |
| SLP420S-24 | 420W | 39.80V | 10.55A | 48.00V | 12.84A | 1940 x 1048 x 35mm |

Mechanical Characteristics

Solar Cells: Multicrystalline or Monocrystalline Solar cells

Construction: Front High-Transmission 3.2mm Tempered Glass;

Frame: Clear Anodized Aluminium Alloy (Silver colour)

Module Warranty

- 25 year Limited Warranty of 80% Power Output;
- 10 year Limited Warranty of 90% Power Output;
- 5 year Limited Warranty of materials & workmanship



Tier-1 Solar Panels

- IEC Compliant: 61215, 61730
- High Module Efficiency

Note: Product specification may vary. Confirm exact specifications and availability when ordering.

Mechanical Characteristics

Cells: Polycrystalline / Monocrystalline
Frame: Anodized Aluminum Alloy

Junction Box: **IP68**

Module Warranty

- 25 Year Limited Power output Warranty
- 10 Year Product Warranty & Workmanship



| Code | Maximum Power (Pmax) | Voltage @ Pmax (Vmp) | Current @ Pmax (Imp) | Open-Circuit Voltage (Voc) | Short-Circuit Current (Isc) | Dimensions L x W x H |
|----------------|----------------------|----------------------|----------------------|----------------------------|-----------------------------|----------------------|
| T1-SLP-144-340 | 340W | 38.1V | 8.84A | 46.6V | 9.16A | 2000 x 992 x 30mm |
| T1-SLP-144-405 | 405W | 38.5V | 10.42A | 47.4V | 10.98A | 2108 x 1048 x 40mm |
| T1-SLP-144-415 | 415W | 39.3V | 10.56A | 47.8V | 11.14A | 2108 x 1048 x 40mm |
| T1-SLP-144-430 | 430W | 39.90V | 10.78A | 48.40V | 11.32A | 2108 x 1048 x 40mm |

Mono-Crystalline Solar Panels

| | | | | | | |
|----------------------|------|--------|--------|--------|--------|--------------------|
| T1-SLP-120-375-M | 375W | 34.5V | 10.87A | 41.45V | 11.41A | 1769 x 1052 x 30mm |
| T1-SLP-120-455-M | 455W | 34.38V | 13.24A | 41.42V | 13.86A | 1909 x 1134 x 35mm |
| T1-SLP-144-455-M | 455W | 41.82V | 10.88A | 49.85V | 11.45A | 2112 x 1052 x 35mm |
| T1-SLP-144-455-M-CAN | 455W | 41.30V | 11.02A | 49.30V | 11.66A | 2108 x 1048 x 35mm |
| T1-SLP-144-460-M | 460W | 42.13V | 10.92A | 50.01V | 11.45A | 2112 x 1052 x 35mm |
| T1-SLP-144-535-M | 535W | 41.47V | 12.90A | 49.45V | 13.79A | 2279 x 1134 x 35mm |
| T1-SLP-144-550-M | 550W | 41.96 | 13.11A | 49.9V | 14.0A | 2278 x 1134 x 35mm |
| T1-SLP-144-545-M-CAN | 545W | 41.5V | 13.14A | 49.4V | 13.95A | 2254 x 1135 x 35mm |
| T1-SLP-120-595-M | 595W | 34.70V | 17.15A | 41.10V | 18.42A | 2172 x 1303 x 35mm |
| T1-SLP-156-595-M | 595W | 45.05V | 13.21A | 53.4V | 14.03A | 2465 x 1134 x 35mm |
| T1-SLP-120-600-M-CAN | 600W | 34.9V | 17.2A | 41.3V | 18.47A | 2172 x 1303 x 35mm |
| T1-SLP-156-665-M-CAN | 665W | 38.5V | 17.28A | 45.6V | 18.51A | 2384 x 1303 x 35mm |

HIGH VOLTAGE PV MODULES

High Voltage Solar PV Modules

- Suitable for use in Solar Pumping Applications
- IEC Compliant
- PID Resistant
- Highly Reliable Anti-Reflective Coated Glass
- 144 Cell High Voltage Configuration

Mechanical Characteristics

Cells: Polycrystalline
 Frame: Anodized Aluminum Alloy
 Junction Box: **IP67**

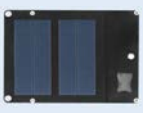






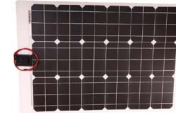
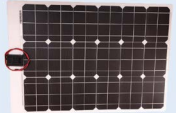
Module Warranty

• 25 Year Limited Power output Warranty • 10 Year Product Warranty





| Code | Maximum Power (Pmax) | Voltage @ Pmax (Vmp) | Current @ Pmax (Imp) | Open-Circuit Voltage (Voc) | Short-Circuit Current (Isc) | Dimensions L x W x H |
|--------|----------------------|----------------------|----------------------|----------------------------|-----------------------------|----------------------|
| RHV300 | 300W | 75.17V | 4.03A | 91.67V | 4.2A | 1934 x 1021 x 40mm |
| RVH340 | 340W | 77.14V | 4.47A | 92.04V | 4.72A | 1938 x 1021 x 40mm |

FOLDABLE / FLEXIBLE SOLAR PANELS

| | Foldable  | Foldable  | Semi-Rigid  |
|-----------------------|--|--|--|
| Code | SHB-10W | SHB-20W | SLP10F-12A |
| Max Power | 10W | 20W | 10W |
| Voltage Pmax (Vmp) | 17.42V | 17.46V | 18,0V |
| Current Pmax (Imp) | 0.57A | 1.18A | 0,56A |
| Open Voltage (Voc) | 21.2V | 21.6V | 22,5V |
| Short Circuit Current | 0.62A | 1.29A | 0,81A |
| Size | 220 x 320 x 40mm | 220 x 320 x 40mm | 290 x 333 x 17mm |

| | Flexible Semi-Rigid  | Flexible Semi-Rigid  | Flexible Semi-Rigid  | Flexible Semi-Rigid  |
|-----------------------|--|--|---|--|
| Code | SLP20F-12A | SLP30F-12A | SLP40F-12A | SLP50F-12A |
| Max Power | 20W | 30W | 40W | 50W |
| Voltage Pmax (Vmp) | 18,0V | 18,0V | 18,0V | 18,0V |
| Current Pmax (Imp) | 1,11A | 1,67A | 2,22A | 2,77A |
| Open Voltage (Voc) | 22,5V | 22,5V | 22,5V | 22,5V |
| Short Circuit Current | 1,36A | 1,92A | 2,47A | 3,02A |
| Size | 470 x 333 x 17mm | 650 x 333 x 17mm | 775 x 333 x 17mm | 690 x 500 x 17mm |

SOLAR BATTERY CHARGERS

| |  |  |  |  |
|--------------------|---|---|--|---|
| Code | SLP10F-12 | SLP20F-12 | SLP80F-12 | SLP120F-12 |
| Max Power | 10W | 20W | 80W | 120W |
| Voltage Pmax (Vmp) | 17.0V | 17.2V | 18.0V | 18.0V |
| Current Pmax (Imp) | 0.58A | 0.87A | 4.44A | 6.67A |
| Battery Voltage | 12V | 12V | 12V | 12V |
| Charge Controller | 4.5A | 4.5A | 7A | 20A |
| Panel Size | 302 x 357 x 30mm | 576 x 357 x 30mm | 570 x 500 x 50mm x 2 | 740 x 518 x 30mm x 2 |



SOLAR MOUNTING SYSTEMS

| | Profile | | PV Panel Clamps | |
|--------------------------|----------------------------|----------------------------------|----------------------------|------------------------------|
| | | | | |
| Code | CK-FZ-F4700 | CK-FZ-SK | CK-FZ-AM | CK-FZ-AE |
| Description | Solar Standard Rail 4.7M | Solar Standard Rail Splice | Adjustable Solar Mid Clamp | Adjustable End Clamp |
| Mounting Hardware | | | | |
| | | | | |
| Code | CK-FZH-013 | CK-FZH-TC | CK-FZH-01 | CK-FZH-021 |
| Description | Solar Aluminium Tin Hook | Solar Tin Roof Al Clamp | Solar SUS304 Tile Hook | Solar Tin Thin Roof Al Clamp |
| | | | | |
| Code | CK-FZA-FL | CK-TM-1530 | CK-2V-3035 | CK-FSC-CP1 |
| Description | Solar Adjustable Front Leg | Adjustable Tri Structure 15 - 30 | 2V Ground Support 30/35° | Solar Cable Clips |

ACDC provides professional solutions for Solar photovoltaic mounting for residential, corporate and utility scale applications

- Roof Top mounting for both tiled and tin roofs
- Open area: Ground mounting / Pole mounting
- High quality material in Aluminium 6005-T5
- Suitable for all roof types and PV modules
- Fast and simple installations






SOLAR ROOF TILT RACKING SYSTEM

| | | | |
|--------------------|----------------------------|----------------------------|----------------------------|
| | | | |
| Code | GR-AD-FL 10/15 | GR-AD-FL 15/30 | GR-AD-FL 30/60 |
| Description | Rear Support: 10 - 15cm | Rear Support: 15 - 30cm | Rear Support: 30 - 60cm |

- * Use the following Parts Code: **CK-FZ-F4200** (Solar Panel Profile)
- High class aluminium alloy Al6005-T5 & Stainless Steel 304
 - Roof Slope: up to 60°
 - Suitable for pitched or flat roof







SOLAR PANEL MOUNTING STRUCTURE

| | Aluminium Profiles - Alloy 6063 T6 | | | Structural Components | |
|---|--|---|---|---|---|
| Material: Aluminium Alloy 6063 T6 |  |  |  |  |  |
| Code | VAP2A-01 | VAP2S-01 | VAP3HD-01 | VFPJ-01 | VLBS-01 |
| Description | Square 2-Slot Angle Profile. Bolt Head Slot + Nut Slot 40 x 40 x 4400mm Gauge: 1.2mm | Square 2-Slot Straight Profile. Bolt Head Slot + Nut Slot 40 x 40 x 4400mm Gauge: 1.2mm | Heavy Duty 3-Slot Profile. Bolt Head Slot + 2 x Nut Slots 28 x 56 x 4400mm Gauge: 1.6mm | Straight Joining Plate for Profiles 40 x 400 x 5mm | Standard L-Bracket 40 x 40 x 60 x 5mm |
| Mass | 0.735kg/m | 0.746kg/m | 1.133kg/m | 43g | 45g |
| Application | PV panel mounting for side mounting brackets | PV panel mounting for top mounting brackets | PV panel mounting for top and/or side mounting brackets | Straight joining of aluminium profiles | Angled joining of alu. profiles, upright & roof brackets |

Penetrating Roof Brackets

| | | | | |
|-------------|---|---|--|---|
| |  |  |  |  |
| Code | VLBH-02 | VLBCS-02 | VLBCT-02 | VDTRBS-02G |
| Description | Aluminium High L-Bracket Side Mount 40 x 40 x 80 x 5mm | Galvanised High L-Bracket for corrugated roof Side Mount | Galvanised High C-Bracket for corrugated roof Top Mount | Galvanised Tile Roof Bracket - Side Mount 60-105mm adj elevation |
| Mass | 52g | 48g | 73g | 474g |
| Application | Fixing aluminium profiles directly to the roof structure (eg. IBR) | Fixing aluminium profiles directly to the corrugated roof structure | Fixing aluminium profiles directly to the corrugated roof structure | Fixing aluminium profiles to domestic tile roof structures |
| |  |  |  |  |
| Code | VDTRBT-02G | VHB-02-250 | VIBRAC-02 | VIBRAL-02 |
| Description | Galvanised Tile Roof Bracket Top Mount | Stainless Steel Double Thread Hanger Bolt Top Mount M10 x 250mm | Aluminium IBR Mounting Bracket Side Mount Across the rib | Aluminium IBR Mounting Bracket Side Mount Along the rib |
| Mass | 474g | 230g | 115g | 115g |
| Application | Fixing aluminium profiles to domestic tile roof structures | Fixing aluminium profiles to slate roof structures | Fixing aluminium profiles to IBR roof structures | Fixing aluminium profiles to IBR roof structures |

Non-Penetrating Roof Brackets

| | | | | |
|-------------|---|---|--|---|
| |  |  |  |  |
| Code | VKLSLOT-03 | VBBSLOT-03 | VCLSET-03 | VNOVA-4 |
| Description | Aluminium Klip-Lock Roof Bracket with Slot Top Mount | Aluminium Brown Built Roof Bracket with Slot Top Mount | Aluminium Craft Lock Roof Bracket set c/w Grub Screws Top Mount | Galvanised Novatexi 440 Roof Bracket with Studs Top Mount |
| Mass | 225g | 278g | 115g | 176g |
| Application | Fixing aluminium profiles to Klip-lock GRS roof sheets | Fixing aluminium profiles to Brownbuilt GRS roof sheets | Fixing aluminium profiles to Craft Lock roof sheets | Fixing aluminium profiles to Novatexi roof sheets |

SOLAR PANEL MOUNTING STRUCTURE



*Add kit angle to code:
10 (10°), **20** (20°), **26** (26°)
 Other angles available on request

Upright Kits for Tilted Installations

| Code | Panel Size | Layout | Long Upright Length |
|-------------------|------------|---------------------|---------------------|
| VUK300P-* | 300W | Portrait | 1600mm |
| VUK250P-* | 250W | Portrait | 1200mm |
| VUK150PL-* | 150W/300W | Portrait /Landscape | 850mm |

Kit Includes

- Long & Short Upright
- 3 x L-Brackets for upright assembly
- Nuts & Bolts
- Fasteners required for upright assembly

NEW



VEPSS-01
 Earthing plate for grounding of Solar Panels. Stainless Steel.

Solar Panel Clamps

| | | | | | | |
|---|--|---|--|---|--|---|
| Material: Aluminium Alloy 6063 T6 Caps Screws & Nuts to be ordered separately | | | | | | |
| | VFMC-04 | VFEC-04* | VDGMC-04-100 | VDGEC-04-100 | VDGMC-04-130 | VDGEC-04-130 |
| Description | Middle Clamp U-Bracket 50mm length | End Clamp Z-Bracket 50mm length | Middle Clamp for double glass panels 100mm length | End Clamp for double glass panels 100mm length | Middle clamp for double glass panels 130mm Length | End clamp for double glass panels 130mm Length |
| Mass | 26g | 26g | 147g | 114g | 147g | 114g |
| Application | Securing framed PV panels to aluminium profiles in the middle of a row | Securing framed PV panels at the end of a row. *Standard 40mm or add panel thickness to code: 30mm, 35mm | Securing 60 cell double glass PV panels to alu. profiles in the middle of a row Use SSCAPM8-35 | Securing 60 cell double glass PV panels to alu. profiles at the end of a row Use SSCAPM8-35 | Securing 72 cell double glass PV panels to alu. profiles in the middle of a row Use SSCAPM8-35 | Securing 72 cell double glass PV panels to alu. profiles at the end of a row Use SSCAPM8-35 |

Mounting Accessories




| | | | | | | | |
|-------------|------------------------------------|---|-----------------------------|--|-------------------------------|--|--|
| | For Brackets & Uprights | For Brackets & Uprights | For Brackets & Uprights | For Panel Clamps | For Panel Clamps | | |
| | SS304 | SS304 | SS316 | SS304 | SS316 | SS304 | SS304 |
| Code | SSBOLTM8-20 | SSBOLTM8-55 | SSNUTM8-HEX | SSCAPM8-* | SSNUTM8-SQ | SSFWM8 | SSSWM8 |
| Description | Stainless Steel Bolt M8 x 20 | Stainless Steel Bolt M8 x 55 | Stainless Steel M8 Nut | Stainless Steel M8 Cap Screws | Stainless Steel M8 Square Nut | Stainless Steel Flat Washer for M8 | Stainless Steel Spring Washer for M8 |
| Mass | 12g | 22g | 5g | 11 - 23g | 5g | 2g | 2g |
| Application | Connection of profiles to brackets | Connection of profiles/brackets to uprights | Use with SSBOLTM8 | Connection of solar panel clamps to profiles | Use with SSCAPM8 | Use one for every bolt or cap screw used | Use one for every bolt or cap screw used |

*Add panel depth to code: **25mm, 30mm, 35mm, 40mm, 45mm, 50mm**


| | | | | | | |
|-------------|--|--------------------------------------|--------------------------------------|---|--|--|
| | | | | | | |
| Code | VSSBAT/50 | AC700 | AC101 | VCB-35 | VRN-M8 | VRN-TOOL |
| Description | Stainless Steel Anti-theft Balls for Cap Screws | Butyl Tape 8 x 3mm x 15m | Butyl Tape 48 x 2.5 x 500mm | Concrete Ballast with mounting stud | M8 Rivet Nut | Rivet Nut Tool Manual Crimping M4 - M8 |
| Mass | - | - | - | 35kg | 5g | - |
| Application | Placed in cap screws to prevent theft of PV Panels | Sealing of Penetrating Roof Brackets | Sealing of Penetrating Roof Brackets | Ballast for free standing ground or roof structures | Rivet Nut for fixing structures to roof sheeting | Crimping Rivet Nuts onto roof sheeting |

OFF GRID SOLAR MOUNTING KITS


Solar SLB Series Off-Grid Mounting Kits - Fit for 1 Panel

| |  |  |  |
|----------------|---|---|---|
| Code | SLB-0112 | SLB-0102 | SLB-0103 |
| Module Frame | 30/35mm | 35mm | 35mm |
| Mounting Holes | 3.5mm x 12 | 4.5mm x12 | 4.5mm x12 |
| Module Power | 10 - 30W | 40 - 135W | 40 - 135W |
| Mounting Type | Pole - Adjustable | Fixed Bracket | Flat Surface Adjustable |

These kits include all brackets and hardware needed for assembly. Can be used to mount panels on any surface such as walls, roofs, caravans, poles etc.



Galvanised



Galvanised

| Pre-Assembled Pole Bracket | | |
|----------------------------|--------------|--------------|
| Watts | 1 Panel | 2 Panel |
| 20W | DM120 | - |
| 50 - 85W | DM175 | DM275 |

| Triangle Bracket Set | | |
|----------------------|---------|--------------|
| Watts | 1 Panel | 2 Panel |
| 20 - 85W | - | DR275 |

Off-Grid Ground Mounting Kits

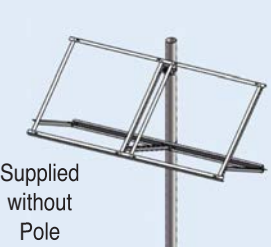
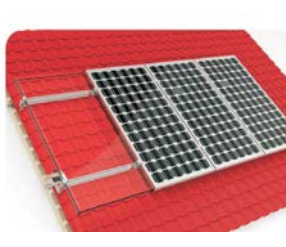
| Code | No of Panels | Foot Print (mm) |
|-----------------|--------------|-----------------|
| VOGGM-01 | 1 | 1012 x 870 |
| VOGGM-02 | 2 | 1530 x 870 |
| VOGGM-04 | 4 | 2100 x 1500 |
| VOGGM-06 | 6 | 2100 x 1500 |

- Perfect for stand alone Solar Pumping Applications
- Manufactured in pre-galvanised steel as standard
- 20° Tilt angle as standard
- Customised engineered solutions available on request

Large Scale Ground Mounting System

| Code | VLSGM-12* |
|--|---|
| • 2 Rows of 6 panels in portrait orientation | * For coastal applications: HDG (Hot dipped galvanised) |
| • Extendable to 40m | |
| • Flexible design to suit any panel size | * For inland applications: PG (Pre-galvanised) |
| • 20° Tilt angle as standard | |
| • Compact and easy to transport & assemble | |
| • Customised engineered solutions available on request | |

PANEL MOUNTING KITS

| | Kits Includes | | | | |
|-------------|--|---|---|--|---|
| | <ul style="list-style-type: none"> Frame Work & Clamps Bolts & Nuts for structure Aluminium Profile 4.2m Suited for 170 - 290W |  |  |  |  |
| Code | | CK-PM-02NP | CK-TL-08 | CK-TNO-08 | CK-ADJ-08 |
| Description | | 2 Panel Pole Mounting Kit | 8 Panel Tile Mounting Kit | 8 Panel Tin Mounting Kit | 8 Panel Tin-Tilt Mounting Kit |
| | |  |  |  |  |
| Code | | CK-TNC-08 | CK-GD-08 | CK-UT-08 | CK-V2-08 |
| Description | | 8 Panel Tin-Clamp Mounting Kit | 8 Panel Ground Mounting Kit <small>Ballast to be ordered separately</small> | 8 Panel Utility Ground Mounting Kit | 8 Panel Ground Mounting Kit |

NEW

PV MOUNTING KITS AND ACCESSORIES

| | 4 Panel Corrugated Roof Kit | 4 Panel IBR Roof Kit | 4 Panel IBR Roof Kit | 4 Panel Klip-Lok/Saflok Roof Kit | 4 Panel Tile Roof Kit |
|--------------------|---|--|---|--|--|
| | | | | | |
| Code | LM-4PKIT-COR-L | LM-4PKIT-IBR-L | LM-4PKIT-IBR-P | LM-4PKIT-KL-L | LM-4PKIT-TILE-P |
| Type | Short Rail | Short Rail | Short Rail | Short Rail | Long Rail (for 4x1m Wide Panels or 3x1.3m Wide Panels) |
| Orient. | Landscape | Landscape | Portrait | Landscape | Portrait |
| Kit Incl. | 10 x LM-CRL 4 x LM-EC35-RNW 6 x LM-IC35-GP1-RNW 40 x FS-S-SP-25X5.5-C4 | 10 x LM-SRL-M6-E 4 x LM-EC35-RNW 6 x LM-IC35-GP1-RNW 30 x FS-S-SP-25X5.5-C4 | 10 x LM-TBR-P 4 x LM-EC35-RNW 6 x LM-IC35-GP1-RNW 40 x FS-S-SP-25X5.5-C4 | 10 x LM-TBR-P 4 x LM-EC35-RNW 6 x LM-IC35-GP1-RNW | 2 x LM-R46-4400 4 x LM-EC35-RNW 6 x LM-IC35-GP1-RNW 6 x LM-RH-S-HDG |
| Short Rails | | | | | Hex Head Screw |
| | | | | | |
| Code | LM-CRL | LM-TBR-P | LM-KS-700 | LM-SRL-M6-E | FS-S-SP-25X5.5-C4 |
| Desc. | PV Mounting Corrugated Short Rail c/w EPDM | PV Mounting Trapezoidal Sheet Short Rail c/w EPDM | PV Mounting Klip-Lok/Saflok 700 Short Rail Clamp 80mm | PV Mounting Short Rail H48x100mm 3xM6 Holes c/w EPDM | PV Mounting Hex Head Self Piercing Screw Class 4 |
| Long Rail | | Tile Roof Hook | | Clamps | |
| | | | | | |
| Code | LM-R46-4400 | LM-RH-S-HDG | LM-EC35-RNW | LM-IC35-GP1-RNW | |
| Desc. | PV Mounting Rail Top and Side Fix 46x4400mm AL6063 | PV Mounting Tile Roof Bracket c/w Screws HDG | PV Mounting End Clamp for 35mm Framed Panels | PV Mounting Middle Clamp for 31-41mm Framed Panels | |
| Rail Splice | | | Square Grounding Washer | | |
| | | | | | |
| Code | LM-RS-I-R48 | LM-RS-R-R42 | LM-SGW | | |
| Desc. | Rail Splice Internal – 150mm AL6005 T5 | Rail Splice Rear for R42 AL6005 T5 / SUS304 | Square Grounding Washer – SUS304 | | |

SOLAR ROOF MOUNTING KITS

Domestic Tile Roof

| Code | Panels-1m | Panels-1.3m |
|-------------|-----------|-------------|
| V2PKIT-TILE | 2 | 1 |
| V3PKIT-TILE | 3 | 2 |
| V4PKIT-TILE | 4 | 3 |

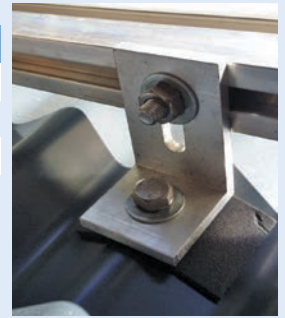


Kit Includes

- Profiles
- Penetrating Tile Roof Brackets
- Framed PV panel clamps and fasteners for structure assembly

Domestic Corrugated Roof

| Code | Panels-1m | Panels-1.3m |
|------------|-----------|-------------|
| V2PKIT-COR | 2 | 1 |
| V3PKIT-COR | 3 | 2 |
| V4PKIT-COR | 4 | 3 |



Kit Includes

- Profiles
- Penetrating Corrugated Brackets
- Framed PV panel clamps and fasteners for structure assembly

IBR Roof

| Code | Panels-1m | Panels-1.3m |
|------------|-----------|-------------|
| V2PKIT-IBR | 2 | 1 |
| V3PKIT-IBR | 3 | 2 |
| V4PKIT-IBR | 4 | 3 |



Kit Includes

- Profiles
- Brackets for installation across the rib
- Framed PV panel clamps and fasteners for structure assembly

Kliplock Roof

| Code | Panels-1m | Panels-1.3m |
|-----------|-----------|-------------|
| V2PKIT-KL | 2 | 1 |
| V3PKIT-KL | 3 | 2 |
| V4PKIT-KL | 4 | 3 |



Kit Includes

- Profiles
- Kliplock Roof Brackets
- Framed PV panel clamps and fasteners for structure assembly

Note: For larger installations or customised solutions contact the solar product specialist

PV JUNCTION BOXES



PV String Box

| Code | PV-JBOX16 |
|------------------------|----------------|
| PV input voltage | <1000V |
| PV Input string no. | 16 |
| Maximum current/string | 10A |
| Protection level | IP65 |
| Communication mode | RS-485, RS-232 |

Characteristics

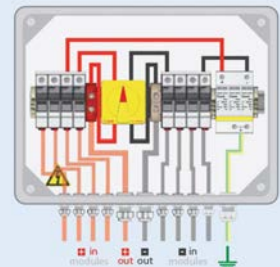
- Equipped with PV dedicated surge arrester
 - With function or arrester failure alarm
 - Including RS 232/485 Communication interface
- Note: Incl. DIN mount 24VDC 1.25A Power Supply

String Boxes for Grid-Tied Systems - IP65

High voltage string boxes are enclosures where PV arrays are electrically connected and where the isolation function is performed in order to permit maintenance work to be done. Junction boxes are supplied complete with fuse, surge and overload protection.

According to Standards

- IEC 60634-7-712 • IEC 60943-7-3 • EN 61439-1-2 • IEC61643-11



| Code | Strings | Voltage | Isc | Surge Protection | Size (mm) | Gland Size |
|-----------|---------|---------|------|------------------|-----------------|------------|
| ST039025P | 3 | 1000VDC | 25A | Class 2 1000VDC | 225 x 305 x 130 | M12 / M16 |
| ST049025P | 4 | 1000VDC | 25A | Class 2 1000VDC | 285 x 380 x 185 | M12 / M16 |
| ST068060P | 6 | 800VDC | 63A | Class 2 1000VDC | 285 x 570 x 185 | M12 / M16 |
| ST106080P | 10 | 600VDC | 80A | Class 2 1000VDC | 380 x 570 x 185 | M12 / M16 |
| ST101010P | 10 | 1000VDC | 125A | Class 2 1000VDC | 405 x 650 x 200 | M12 / M16 |
| ST148012P | 14 | 800VDC | 125A | Class 2 1000VDC | 380 x 760 x 225 | M12 / M16 |
| SH161012 | 16 | 1200VDC | 160A | Class 2 1500VDC | 760 x 380 x 225 | M12 / M16 |

Note: For PV surge protection devices and fuses see page 206, 267, 270, 272 of the ACDC Main Catalogue

NEW

STRING BOXES

Characteristics

- Non-SPD: No Surge Protection
- SPD II: Surge Protection Device Class 2
- SPD I,II: Surge Protection Device Class 1+2
- DC Isolation for Outputs
- Separate Fuse Protection for each String
- Max. Current Rating per Fuse 12A / 1000VDC
- Cable Gland Entry to Enclosure
- String Boxes can be manufactured to your specifications in our Panel Workshop

String Boxes with Multiple Inputs to a Single Output

| Code (NON-SPD) | Code (SPD II) | Code (SPD I,II) | Voltage | Strings |
|-------------------|---------------------|----------------------|---------|---------|
| STRB-600V-1I-10 | STRB-600V-1I-10-2 | STRB-600V-1I-10-1+2 | 600V | 1:1 |
| STRB-600V-2I-10 | STRB-600V-2I-10-2 | STRB-600V-2I-10-1+2 | | 2:1 |
| STRB-600V-4I-10 | STRB-600V-4I-10-2 | STRB-600V-4I-10-1+2 | | 4:1 |
| STRB-600V-6I-10 | STRB-600V-6I-10-2 | STRB-600V-6I-10-1+2 | | 6:1 |
| STRB-600V-8I-10 | STRB-600V-8I-10-2 | STRB-600V-8I-10-1+2 | | 8:1 |
| STRB-600V-12I-10 | STRB-600V-12I-10-2 | STRB-600V-12I-10-1+2 | | 12:1 |
| STRB-600V-16I-10 | STRB-600V-16I-10-2 | STRB-600V-16I-10-1+2 | 16:1 | |
| STRB-1000V-1I-10 | STRB-1000V-1I-10-2 | STRB-1000V-1I-10-1+2 | 1000V | 1:1 |
| STRB-1000V-2I-10 | STRB-1000V-2I-10-2 | STRB-1000V-2I-10-1+2 | | 2:1 |
| STRB-1000V-4I-10 | STRB-1000V-4I-10-2 | STRB-1000V-4I-10-1+2 | | 4:1 |
| STRB-1000V-6I-10 | STRB-1000V-6I-10-2 | STRB-1000V-6I-10-1+2 | | 6:1 |
| STRB-1000V-8I-10 | STRB-1000V-8I-10-2 | STRB-1000V-8I-10-1+2 | | 8:1 |
| STRB-1000V-12I-10 | STRB-1000V-12I-10-2 | STR-1000V-12I-10-1+2 | | 12:1 |
| STRB-1000V-16I-10 | STRB-1000V-16I-10-2 | STR-1000V-16I-10-1+2 | 16:1 | |

Protection: Fused, Iso, SPD or NON-SPD

String Boxes with Multiple Inputs and Outputs

| | | | | |
|------------------|--------------------|----------------------|------|-------|
| STRB-600V-2I-20 | STRB-600V-2I-20-2 | STRB-600V-2I-20-1+2 | 600V | 2:2 |
| STRB-600V-4I-20 | STRB-600V-4I-20-2 | STRB-600V-4I-20-1+2 | | 4:2 |
| STRB-600V-4I-40 | STRB-600V-4I-40-2 | STRB-600V-4I-40-1+2 | | 4:4 |
| STRB-600V-6I-20 | STRB-600V-6I-20-2 | STRB-600V-6I-20-1+2 | | 6:2 |
| STRB-600V-6I-60 | STRB-600V-6I-60-2 | STRB-600V-6I-60-1+2 | | 6:6 |
| STRB-1000V-2I-20 | STRB-1000V-2I-20-2 | STRB-1000V-2I-20-1+2 | | 1000V |
| STRB-1000V-4I-20 | STRB-1000V-4I-20-2 | STRB-1000V-4I-20-1+2 | 4:2 | |
| STRB-1000V-4I-40 | STRB-1000V-4I-40-2 | STRB-1000V-4I-40-1+2 | 4:4 | |
| STRB-1000V-6I-20 | STRB-1000V-6I-20-2 | STRB-1000V-6I-20-1+2 | 6:2 | |
| STRB-1000V-6I-60 | STRB-1000V-6I-60-2 | STRB-1000V-6I-60-1+2 | 6:6 | |

Off Grid PV String Box

| Code - Enclosed | STRB-PWM-* | STRB-01 | STRB-02 | STRB-04 | STRB-06 |
|---------------------------|-------------------|----------|----------|----------|---------|
| Code - DB Type | - | STRBD-01 | STRBD-02 | STRBD-04 | - |
| PV input voltage | 55VDC | 150VDC | 150VDC | 150VDC | 150VDC |
| PV Input string no. | 1 | 1 | 2 | 4 | 6 |
| Maximum current/string | *5/8/10/20/30/40A | 20A | 20A | 20A | 20A |
| Protection output current | 5/8/10/20/30/40A | 20A | 40A | 80A | 120A |

* Add String Current to Code: 5/8/10/20/30/40A

- Separate fuse protection for each string on positive and negative
- **STRB-PWM** Includes: PV Isolation & Fuse Protection only
- **STRB-01/02/04/06** & **STRBD-01/02/04**: PV Surge & Fuse Protection and Isolation included



1 in / 1 out



4 in / 1 out



2 in / 2 out



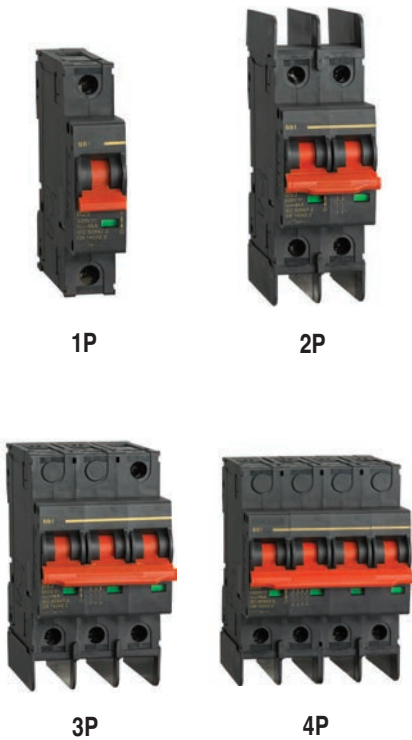
STRB-01



STRBD-02

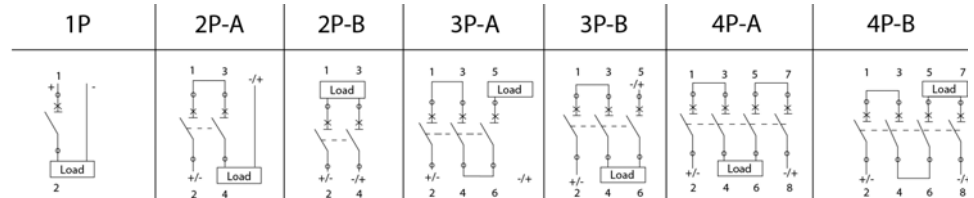
DC CIRCUIT BREAKERS

DIN Rail Mounting DC Miniature Circuit breaker - $U_i = 1200V$ / $U_{imp} = 4kV$ | $I_{cu}=I_{cs} :6KA$ | B curve



| Rated current | 1 Pole Code 1M - 300VDC | 2 Pole Code 2M - 600VDC | 3 Pole Code 3M - 900VDC | 4 Pole Code 4M - 1200VDC |
|---------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| 10A | BB1-1P-10 | BB1-2P-10 | BB1-3P-10 | BB1-4P-10 |
| 16A | BB1-1P-16 | BB1-2P-16 | BB1-3P-16 | BB1-4P-16 |
| 20A | BB1-1P-20 | BB1-2P-20 | BB1-3P-20 | BB1-4P-20 |
| 25A | BB1-1P-25 | BB1-2P-25 | BB1-3P-25 | BB1-4P-25 |
| 32A | BB1-1P-32 | BB1-2P-32 | BB1-3P-32 | BB1-4P-32 |
| 40A | BB1-1P-40 | BB1-2P-40 | BB1-3P-40 | BB1-4P-40 |
| 50A | BB1-1P-50 | BB1-2P-50 | BB1-3P-50 | BB1-4P-50 |
| 63A | BB1-1P-63 | BB1-2P-63 | BB1-3P-63 | BB1-4P-63 |

Wiring Diagrams:



Moulded Case DC Circuit breaker for ESS - $U_{imp} = 8kV$

| Open Code | BDM-125* | BDM-250* |
|------------------------------|---------------------------|---------------|
| | Enclosed Code IP65 | |
| Nominal current Ratings (In) | EBDM-125* | EBDM-250* |
| | 80A | 160A |
| | 125A | 200A |
| | 250A | |
| Ratings: | U_i/U_e | 500VDC |
| | I_{cs}/I_{cu} | 15kA |
| Dimensions: | Open | 151x65x119mm |
| | Enclosed | 271x154x134mm |
| | | 165x80x118mm |
| | | 271x154x130mm |

See 2P wiring diagram above

DC ISOLATORS

DIN Rail Mounting Modular DC Isolator - DC21B - $U_i = 1200V$ / $U_{imp} = 8kV$



| Code | Rated Current | Rated Voltage | Strings | Din Width |
|------------|---------------|--------------------|---------|-----------|
| BB1H-63-2P | 63A | 600VDC(300V/Pole) | 1 | 2 modules |
| BB1H-63-4P | 63A | 1200VDC(300V/Pole) | 1 | 4 modules |

See 2P & 4P wiring diagrams above

Moulded Case DC Isolator - DC21B - $U_i = 1200V$ / $U_{imp} = 8kV$ / $kW = 8kA$



| Code | Rated Current | Rated Voltage | Strings | Size (mm) H x W x D |
|---------|---------------|--------------------|---------|------------------------|
| BDH-125 | 125A | 1200VDC(300V/Pole) | 1 | 180 x 140 x 118 |
| BDH-250 | 250A | 1200VDC(300V/Pole) | 1 | 180 x 140 x 118 |
| BDH-400 | 400A | 1200VDC(300V/Pole) | 1 | 259 x 199 x 153 |

See 4P wiring diagram above

OPEN DC ISOLATORS

DC Rotary Isolator - DC21B - $U_i = 1500V$ / $U_{imp} = 8kV$ / Panel Mount: $\varnothing 16 \times 12mm$ hole



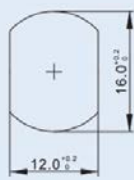
BYSS-2P



BYSS-4P



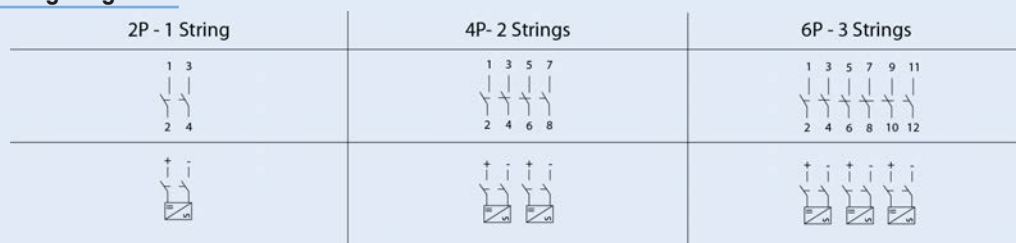
BYSS-6P



Panel Cutout

| Code | Rated Current@ 800VDC | Rated Current@ 1000VDC | Rated Current@ 1200VDC | Rated Current@ 1500VDC | Strings | Size (mm) H x W x D |
|--------------|-----------------------|------------------------|------------------------|------------------------|---------|---------------------|
| BYSS-1-18-2P | 25A | 18A | 15A | - | 1 | 60 x 47 x 94 |
| BYSS-1-18-4P | 25A | 18A | 15A | - | 2 | 60 x 47 x 115 |
| BYSS-1-18-6P | 25A | 18A | 15A | - | 3 | 60 x 47 x 136 |
| BYSS-1-32-2P | 40A | 32A | 25A | - | 1 | 60 x 47 x 94 |
| BYSS-1-32-4P | 40A | 32A | 25A | - | 2 | 60 x 47 x 115 |
| BYSS-1-32-6P | 40A | 32A | 25A | - | 3 | 60 x 47 x 136 |
| BYSS-1-50-2P | 50A | 50A | 40A | 16A | 1 | 60 x 47 x 94 |
| BYSS-1-50-4P | 50A | 50A | 40A | 16A | 2 | 60 x 47 x 115 |
| BYSS-1-50-6P | 50A | 50A | 40A | 16A | 3 | 60 x 47 x 136 |

Wiring Diagrams:



Gwe



IP20
Finger safe



Series links
mounted in factory

Panel Mount DC Isolator - DC21 - $U_{imp} = 4kV$

| Code | Rated Current @ 300VDC | Rated Current @ 400VDC | Rated Current @ 600VDC | Rated Current @ 800VDC | Rated Current @ 1000VDC | Strings | Panel Depth (mm) |
|-----------|------------------------|------------------------|------------------------|------------------------|-------------------------|---------|------------------|
| A-5342PV0 | 35A | - | - | - | - | 1 | 60 |
| A-5362PV0 | - | 25A | 15A | - | - | 1 | 72 |
| A-5382PV0 | - | - | 25A | 10A | - | 1 | 83 |
| A-5102PV0 | - | - | - | - | 25A | 1 | 95 |

- Double breaking mechanism - Avoids arcing independent of operator turning speed or pressure
- Contacts in series to optimize electrical characteristics | External series links mounted in factory
- Silver alloy contacts - For additional mounting accessories see the ACDC Main Catalogue.

END OF RANGE



L100AD11

Open Type DC Isolator - DC21B/DC-PV2 (1000V) - $U_i = 1200V$ / $U_{imp} = 8kV$

| Code | Rated Current @ 600VDC | Rated Current @ 1000VDC | Rated Current @ 1200VDC | Strings | Size (mm) H x W x D |
|-------|------------------------|-------------------------|-------------------------|---------|---------------------|
| PV225 | 25A/10A | 20A/8A | 12A (DC21B) | 1 | 73 x 53 x 60 |
| PV232 | 32A/12A | 25A/10A | 16A (DC21B) | 1 | 73 x 53 x 60 |
| PV425 | 25A/25A | 25A/25A | 25A (DC21B) | 1 | 73 x 74 x 60 |
| PV432 | 32A/32A | 32A/32A | 32A (DC21B) | 1 | 73 x 74 x 60 |

- Compact size and wide operating temperature range
- Operating Handle & Shaft to be ordered separately



LK10



LK10Y



LK10YR



K/PV



OKA/PV

Open Type Accessories

| Code | Description | Code | Description |
|------------------------------|------------------------------|---|-------------------------------------|
| Shafts | | Door Mounting Operating Handles IP66 - Padlockable | |
| L100AD11 | 100mm Alu Shaft for KU/VKA | LK10 | Black Handle for KU 25 - 80A |
| L200AD11 | 200mm Alu Shaft for KU/VKA | LK10Y | Yellow Handle for KU 25 - 80A |
| L300AD11 | 300mm Steel Shaft for KU/VKA | LK10YR | Yellow & Red Handle for KU 25 - 80A |
| Direct Opening Handle | | Door Mounting Kit | |
| K/PV-2P | 2 Pole Direct Handle | OKA/PV-2P | 2 Pole Door Mounting Kit |
| K/PV-4P | 4 Pole Direct Handle | OKA/PV-4P | 4 Pole Door Mounting Kit |

HIGH RATING DC ISOLATORS

According to Standards

- IEC 60947-3



- Extra-quick Circuit-Breaking Technology
- High Insulating Distance (>50mm)
- High Thermal and Dynamic withstand
- Positive Break Indication
- Fast and Easy to Install
- Quick Arc Suppression

DC Isolators - Series bridges, handle & shaft to be ordered separately.

Series 55PV manually operated load break switches provide safety isolation for any high voltage DC circuit in photovoltaic applications. Designed to isolate one circuit/string.

| Code | DC-21B @1000V | Ui | Uimp | Strings | Frame size | Size (mm) H x W x D |
|----------|---------------|-------|------|---------|------------|---------------------|
| 55PV2010 | 100A | 1500V | 12kV | 1 | B4 | 160 x 180 x 95 |
| 55PV2016 | 160A | 1500V | 12kV | 1 | B4 | 160 x 180 x 95 |
| 55PV2025 | 250A | 1500V | 12kV | 1 | B4 | 160 x 180 x 95 |
| 55PV2031 | 315A | 1500V | 12kV | 1 | B4 | 160 x 180 x 95 |
| 55PV4016 | 160A | 1500V | 12kV | 1 | B4 | 160 x 230 x 79 |
| 55PV4040 | 400A | 1500V | 12kV | 1 | B4 | 170 x 230 x 92 |
| 55PV4050 | 500A | 1500V | 12kV | 1 | B4 | 170 x 230 x 92 |
| 55PV4063 | 630A | 1500V | 12kV | 1 | B5 | 260 x 290 x 111 |
| 55PV4080 | 800A | 1500V | 12kV | 1 | B5 | 260 x 290 x 111 |
| 55PV4120 | 1200A | 1500V | 12kV | 1 | B6 | 330 x 360 x 143 |
| 55PV4200 | 2000A | 1500V | 12kV | 1 | B7 | 288 x 492 x 143 |

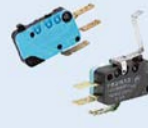
Accessories



Protection Screen



Bridging Bar



Auxiliary Contact



Direct Handle



Panel Mount Handle



Extension Shaft

| Frame Size | B4 2P 100-315A | B4 4P 160A | B4 4P 400-500A | B5 4P 630A | B5 4P 800A | B6 4P 1250A | B7 4P 2000A |
|-----------------------------------|----------------|------------|----------------|------------|------------|-------------|-------------|
| Protection Screen | S063B4 | S064B4 | | S064B5 | | S064B6 | S064B7 |
| Bridging Bars (Order 2/4P Switch) | - | 41DC4026 | S04P0500 | S04P0800 | | S04P1100 | S04P1200 |
| Direct Handle | S11J1 | | | | | | S11J4 |
| Panel Mount Handle + 200mm Shaft | 55K1G200 | | | | | - | |

For more accessories see 55AC Range in the ACDC Main Catalogue.

ENCLOSED DC ISOLATORS

Gwe



Padlockable Handle Available



Enclosed DC Isolators IP65 - Use standard MC4 connectors

| Code | Rated Current @ 300VDC | Rated Current @ 400VDC | Rated Current @ 600VDC | Rated Current @ 800VDC | Rated Current @ 1000VDC | Size (mm) |
|-----------|------------------------|------------------------|------------------------|------------------------|-------------------------|-----------------|
| A-5342MC7 | 35A | - | - | - | - | 160 x 130 x 155 |
| A-5362MC7 | - | 25A | 15A | - | - | 160 x 130 x 155 |
| A-5382MC7 | - | - | 25A | 10A | - | 160 x 130 x 155 |
| A-5102MC7 | - | - | - | - | 25A | 160 x 130 x 155 |

- Original and compact design
- 2 MC4 Input (+ & -)
- Base Mounting
- Enclosure UV resistant
- 1 MC4 Output (+ & -)
- Simple & fast plugin

END OF RANGE

KATKO



PVA



PVM

Enclosed Type Isolators IP66 - DC21B/DC-PV2 (1000V) - Ui = 1200V / Uimp = 8kV

| Code PC | Code Alu | Rated Current @ 600VDC | Rated Current @ 1000VDC | Rated Current @ 1200VDC | Strings | Size (mm) H x W x D |
|---------|----------|------------------------|-------------------------|-------------------------|---------|---------------------|
| PVM225 | PVA225 | 25A/10A | 20A/8A | 12A (DC21B) | 1 | 131 x 97 x 106 |
| PVM232 | PVA232 | 32A/12A | 25A/10A | 16A (DC21B) | 1 | 131 x 97 x 106 |
| PVM425 | PVA425 | 25A/25A | 25A/25A | 25A (DC21B) | 1 | 131 x 97 x 106 |
| PVM432 | PVA432 | 32A/32A | 32A/32A | 32A (DC21B) | 1 | 131 x 97 x 106 |

- PC Enclosure - 2 x 20/25mm knock outs top & bottom
- Aluminium Enclosure - 2 x M25, 1 x M16 Entries
- Door interlock with defeat mechanism
- Padlockable Operating Handle
- Good resistance to UV and chemicals
- Wide Operating temperature range - up to 60°C

ENCLOSED DC ISOLATORS

Enclosed DC Isolators - IP66



Glanded Type

MC4 Type

| Code Glanded | Code MC4 NEW | Rated Current @ 600VDC | Rated Current @ 1000VDC | Rated Current @ 1200VDC | Strings | Size (mm) H x W x D |
|--------------|---------------------|------------------------|-------------------------|-------------------------|---------|---------------------|
| SISO-16P2 | SISO-16P2-MC4 | 16A | 9A | 9A | 1 | 166 x 109 x 108 |
| SISO-25P2 | SISO-25P2-MC4 | 25A | 11A | 11A | 1 | 166 x 109 x 108 |
| SISO-32P2 | SISO-32P2-MC4 | 32A | 13A | 13A | 1 | 166 x 109 x 108 |
| SISO-16P4B | SISO-16P4B-MC4 | 16A | 16A | 16A | 1 | 166 x 109 x 108 |
| SISO-25P4B | SISO-25P4B-MC4 | 25A | 25A | 25A | 1 | 166 x 109 x 108 |
| SISO-32P4B | SISO-32P4B-MC4 | 32A | 32A | 32A | 1 | 166 x 109 x 108 |

- UV Resistant Enclosure
- High Speed Contact Opening: ± 2 ms
- c/w Earth Terminal
- Interlocked Lid, only removable in off position
- Padlockable Operating Handle
- Rated Temp: -25°C to 85°C

NEW

victron energy
BLUE POWER



Battery Switch

| Code | VIC-BAT-SWITCH |
|-------------------------|------------------------|
| Max. Continuous Current | 275A |
| Rated Voltage | 48VDC |
| Size (mm) | 70 x 77 x 70 |
| Mounting | Surface or Panel Mount |

The battery switch can be used to isolate a battery from DC loads and/or DC charge sources. It is used to preserve battery charge in case a system is unattended, for system maintenance or in an emergency.

NEW

DC FUSES, FUSE HOLDERS & BUSBARS

| Type | MIDI Fuses 32VDC | MIDI Fuses 58VDC | MEGA Fuses 32VDC | | MEGA Fuses 58VDC | ANL Fuses 80VDC |
|------------------------------|------------------------------|------------------|--|--------------------------------------|------------------------------|-----------------|
| | | | | | | |
| Code | MIDI32-* | MIDI58-* | MEGA32-* | | MEGA58-* | ANL80-* |
| * Add Current Rating to Code | 100A 125A 150A 200A | 60A 100A | 60A 80A 100A 125A 150A 175A | 200A 250A 300A 400A 500A | 125A 200A 250A 300A | 400A 500A |
| Fuse Bases | | | | | | |
| Code | MIDI-FB | MEGA-FB | VIC-MEGA-FB | | ANL-FB | |
| Description | Standard base | Standard base | Modular base | | Standard base | |

FUSE HOLDERS WITH BUSBARS

victron energy
BLUE POWER



- Galvanised steel Terminal and Hex-Nut
- UL 94 HB, Clear Polycarbonate Cover
- Black UL 94 V-0, ABS base

6-Way MEGA Fuse Holder with Busbar

| Code | VIC-MEGA6 |
|----------------------------|------------------------------|
| Max. Current | 250A |
| Max. Voltage | 70VDC |
| Terminal Diameter Height | 8mm 14mm |
| Busbar Strip Material | Tin-plated Copper (3 x 18mm) |
| Size (HxWxD) | 51 x 182 x 88mm |

Busbars for use with Modular MEGA Fuse Base

The Single Fuse Holders **VIC-MEGA-FB** are stacked and used with the busbars to make up a DC bus

| Code | VIC-MEGA-BB5 | VIC-MEGA-BB6 |
|----------------|-------------------|--------------|
| No. Positions | 5 | 6 |
| Current Rating | 500A | 1500A |
| Terminals Size | M10 x 1 | M10 x 2 |
| Busbar Size | Copper (40 x 5mm) | |

Note: Modular base and busbars are to be ordered separately.











VIC-MEGA-BB5





VIC-MEGA-BB6

NEW

DC FUSES & FUSE HOLDERS

| Photovoltaic Fuses - 10 x 38mm - gPV | | Photovoltaic Fuses - 14 x 51mm - gPV | | Photovoltaic Fuses - 10 x 85mm - gPV | | Photovoltaic Fuses - 14 x 85mm - gPV | |
|---|---------------|---|---------------|---|---------------|---|---------------|
|  <p>Rated Voltage: 1000V Breaking Capacity: 20kA</p> | |  <p>Rated Voltage: 1000V Breaking Capacity: 20kA</p> | |  <p>Rated Voltage: 1500V Breaking Capacity: 20kA</p> | |  <p>Rated Voltage: 1500VDC Breaking Capacity: 20kA</p> | |
| Code | Rated Current | Code | Rated Current | Code | Rated Current | Code | Rated Current |
| 30F1PV | 1A | 30F10PV | 10A | 30F15PV-L | 15A | F1085GPV-2 | 2A |
| 30F2PV | 2A | 30F12PV | 12A | 30F20PV-L | 20A | F1085GPV-4 | 4A |
| 30F3PV | 3A | 30F15PV | 15A | 30F25PV-L | 25A | F1085GPV-10 | 10A |
| 30F4PV | 4A | 30F20PV | 20A | 30F32PV-L | 32A | F1085GPV-16 | 16A |
| 30F5PV | 5A | 30F25PV | 25A | 30F40PV-L | 40A | F1085GPV-20 | 20A |
| 30F6PV | 6A | 30F30PV | 30A | 30F50PV-L | 50A | F1085GPV-30 | 30A |
| 30F8PV | 8A | | | | | | |
| 10 x 38mm DIN Fuse Base - 1000VDC | | 14 x 51mm DIN Fuse Base - 1000VDC | | 10 x 85mm DIN Fuse Base - 1500VDC | | 10/14 x 85mm DIN Fuse Base - 1500VDC | |
|  | |  | |  | |  | |
| Code | Ratings | Code | Ratings | Code | Ratings | Code | Ratings |
| SRD-30 | 1000VDC, 30A | SRD-63 | 1000VDC, 50A | SRD-32L | 1500VDC, 30A | CFPV63L | 1500VDC, 50A |

| NH Photovoltaic Fuses - gPV | | | 1000VDC NH Fuse Bases | | |
|-----------------------------|---------------|---------------|---|---|---------------------------------|
| Code | Rated Current | DIN Fuse Size | | | |
| NH1GPV-32 | 32A | 1 |  |  | Code NH1PVB NH2XLB |
| NH1GPV-40 | 40A | 1 | | | |
| NH1GPV-50 | 50A | 1 | Ratings Size 1 1000VDC, 250A Size 2XL 1000V, 400A | | |
| NH1GPV-63 | 63A | 1 | | | |
| NH1GPV-80 | 80A | 1 | | | |
| NH1GPV-100 | 100A | 1 | | | |
| NH1GPV-125 | 125A | 1 | | | |
| NH1GPV-160 | 160A | 1 | | | |
| NH2XLGPV-200A | 200A | 2XL | | | |
| NH2XLGPV-250A | 250A | 2XL | | | |
| NH2XLGPV-315A | 315A | 2XL | | | |
| NH2XLGPV-350A | 350A | 2XL | | | |
| NH2XLGPV-400A | 400A | 2XL | | | |



NH1GPV NH2XLGPV
Rated Voltage: 1000V
Breaking Capacity: 50kA (Size 1)
30kA (Size 2XL)

NEW

1000VDC FUSEHOLDERS

Gawe

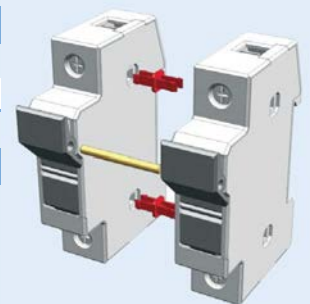
Fuse Holders for DC Applications

| Code | Thermal Rating | Fuse Size | Poles | Width |
|-------|----------------|-----------|--------|-------|
| 211PV | 20A | 10 x 38 | 1 Pole | 18mm |
| 221PV | 50A | 14 x 51 | 1 Pole | 27mm |

Accessories

| Code | Description |
|------|-------------------------|
| 21KE | Multipole assembly kits |

- According To**
- IEC 60947-1
 - IEC 60947-3
- Characteristics**
- 1000VDC - DC-20B
 - Mounting 35mm DIN rail
 - High temperature resistant plastics
 - Elevated insulation characteristics



For multipole fuse holders use multipole assembly kits - 21KE

PHOTOVOLTAIC SYSTEM PROTECTION



Photovoltaic Arrester: Class 1+2

Combined lightning and surge arrester for use in photovoltaic power supply systems. Fault-resistant Y circuit prevents damage to the surge protective device in case of insulation faults in the generator circuit.

| Code | Description | In (8/20μs) | Itot (8/20μs) | Iimp (10/350μs) | Itot (10/350μs) | Aux | Up | Ucpv |
|--------|--------------------|-------------|---------------|-----------------|-----------------|-----|--------|--------|
| 900070 | DEHNCombo YPV 1200 | 20kA | 40kA | 6.25kA | 12.5kA | No | ≤3.8kV | ≤1200V |
| 900071 | DEHNCombo YPV 1500 | 20kA | 40kA | 6.25kA | 12.5kA | No | ≤4.5kV | ≤1500V |



Photovoltaic Arrester with Integrated DC Fuse: Class 2

Combined disconnection and short circuiting device with safe isolation in the plug-in module prevents fire damage caused by DC arcing (patented SCI principal).

| Code | Description | In (8/20μs) | Imax (8/20μs) | Aux | Up | UcPV | Replacement Modules | |
|--------|-----------------------------|-------------|---------------|-----|---------|-------|---------------------|--------|
| | | | | | | | +/- | |
| 952518 | DEHNGuard M YPV SCI 150 FM | 10kA | 20kA | Yes | ≤ 0.8kV | 150V | 952055 | 952045 |
| 952516 | DEHNGuard M YPV SCI 600 FM | 12.5kA | 25kA | Yes | ≤ 2.5kV | 600V | 952053 | 952043 |
| 952515 | DEHNGuard M YPV SCI 1000 FM | 12.5kA | 25kA | Yes | ≤ 4kV | 1000V | 952051 | 952041 |
| 952517 | DEHNGuard M YPV SCI 1200 FM | 12.5kA | 25kA | Yes | ≤ 4.5kV | 1200V | 952054 | 952044 |



Photovoltaic Arrester: Class 2

Plug-in with flag indication. High reliability due to "Thermo-dynamic Control" SPD monitoring device.

| Code | Description | In (8/20μs) | Imax (8/20μs) | Aux | Up | UcPV | Replacement Modules |
|--------|-------------------------|-------------|---------------|-----|-------|-------|---------------------|
| 952565 | DEHNGuard M YPV 1200 FM | 20kA | 40kA | Yes | ≤ 4kV | 1170V | 952048 |
| 952567 | DEHNGuard M YPV 1500 FM | 15kA | 40kA | Yes | ≤ 5kV | 1500V | 952049 |

U2

PHOTOVOLTAIC SYSTEM PROTECTION



Surge Arrester for PV Systems: Class 2 - c/w Flag Indication & Replaceable Modules

Varistor surge arrestors for protection of PV systems where the separating spark-over distance is kept or without LPS. Maximum continuous operating voltage for PV application: Ucpv ≥ 1.2 x Uoc stc

| Code | No. of Poles | Imax (8/20μs) | In (8/20μs) | Up | Ucpv | DIN Width | Aux |
|----------------|--------------|---------------|-------------|-----------|----------------|-----------|-----|
| SLP-PV170 V/U | 2 | 40kA | 15kA | 0.6/12kV* | 170 / 340VDC* | 2 | N |
| SLP-PV500 V/U | 2 | 30kA | 15kA | 2/4kV* | 510 / 1020VDC* | 2 | N |
| SLP-PV700 V/Y | 3 | 40kA | 20kA | 3.6kV | 750VDC | 3 | N |
| SLP-PV1000 V/Y | 3 | 30kA | 15kA | 4.0kV | 1020VDC | 3 | N |
| SLP-PV1500 V/Y | 3 | 40kA | 15kA | 6.4kV | 1500VDC | 3 | N |

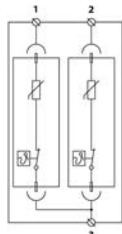
* Connection: 1-3, 2-3 / 1-2

Replacement Varistor Modules

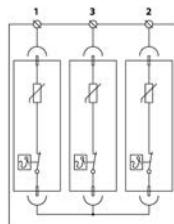
| Code | SLP-PV170U V/0 | SLP-PV500U V/0 | SLP-PV350Y V/0 | SLP-PV500Y V/0 | SLP-PV750Y V/0 |
|------|----------------|----------------|----------------|----------------|----------------|
| Ucpv | 170V | 500V | 700V | 1000V | 1500V |



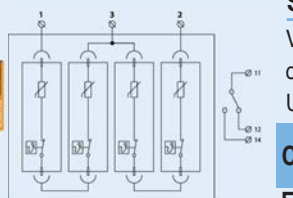
SLP-PV V/U



SLP-PV V/Y



FLP-PV550 V/US



Surge Arrester for PV Systems: Class 1 + 2 - c/w Flag Indication and Replaceable Modules

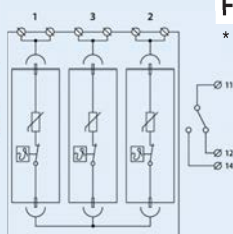
Varistor lightning current arrester for the protection of PV systems on roofs, where the separating spark-over distance is not kept (connection to LPS). Maximum continuous operating voltage for PV application: Ucpv ≥ 1.2 x Uoc stc

| Code | No of Poles | Itot/Iimp (10/350μs) | Imax (8/20μs) | In (8/20μs) | Up | Ucpv | DIN Width |
|-----------------|-------------|----------------------|---------------|-------------|------------|--------------|-----------|
| FLP-PV550 V/US | 4 | 25kA (total) | 60kA | 30kA | 2.4/4.8kV* | 560/1120VDC* | 4 |
| FLP-PV1000 VS/Y | 3 | 12.5kA (imp.) | 60kA | 30kA | 3.6kV | 1000VDC | 6 |

* Connection: 1-3, 2-3 / 1-2 Replacement Varistor modules: FLP-PV275U V/0 (550V), FLP-PV500Y V/0 (1000V)



FLP-PV1000 VS/Y



PV SURGE PROTECTION DEVICES



Surge Arrestor for PV systems: Class 2 - c/w Flag Indication

For protection against lightning surge voltages in solar systems. It's recommended that protection is installed at both ends of the DC power supply line (solar panel side and inverter/converter side), especially if the line routing is external & long. High energy MOVs equipped with specific thermal disconnectors and related failure indicators.

| Code | No. of Poles | I _{max} (8/20μS) | I _n (8/20μS) | U _p | U _{cpv} | U _{oc Max} |
|---------------|--------------|---------------------------|-------------------------|----------------|------------------|---------------------|
| SUP2-PV-500V | 2 | 40kA | 20kA | ≤ 2.0kV | 500VDC | 500VDC |
| SUP2-PV-1000V | 3 | 40kA | 20kA | ≤ 3.8kV | 1000VDC | 900VDC |
| SUP2-PV-1500V | 3 | 40kA | 20kA | ≤ 5.0kV | 1560VDC | 1500VDC |

INSTALLATION TOOLS & ACCESSORIES

| | Wire Stripper | Wire Stripper | X-PRO 50mm Shears | Maxi Grip | Crimping Tool | Solar Tool Kit |
|-------------|---|---|--|--|---|---|
| | | | | | | |
| Code | STRIP-7-SOLAR | STRIP-SOLARMINI | BM1325 | BM1311 | BM531 | PV-BOX |
| | An automatic stripper for round cables used in PV solar and electric fence installation. Precise adjustment allows easy removal of multiple insulation layers of solar cables from 1.5-6mm ² . | <ul style="list-style-type: none"> Stripping depth stop Compact wire stripper designed for the solar industry Suits 1.5-6mm² cable Side blade cutter | <ul style="list-style-type: none"> Innovative new spring loaded opening action For the easy stripping and cutting of cables Especially designed blade for cutting of aluminium and copper cables up to a size of 50mm² | <ul style="list-style-type: none"> Wire Shears Bi-Component handle for greater cutting force Non-slip serrated blades Tempered stainless steel blade Belt clip holder | <ul style="list-style-type: none"> For barrel open terminals 0.5-6mm² Possibility to change the crimping force | Aluminium box with foam cushion for PV tools. All tools in storage. |
| | | | | | MET | Solar Connector Spanner |
| | | | | | | |
| | | | | | | PV-STX |

Solar-Flex White - 290ml

Code **WST-310SOL-WH**

Elastic one-component adhesive and sealant with fast development of adhesive strength.

It contains no substances that hinder the coating of laquer (eg. silicone), no solvents and no isocyanate.

Solar-Flex has a very high initial adhesive strength and also enables adhesive bonds on vertical surfaces indoors and outdoors.

P3



For strongly stressed adhesive bonds in the following areas:

- Solar Power systems
- Junction Boxes
- Marking Systems
- Metal Working
- Tank and apparatus construction
- Ventilation and air conditioning and wherever silicone or products containing silicone are unsuitable.

Advantages

- High initial adhesive strength on vertical surfaces;
- Broad range of adhesion, even on moist surfaces;
- Resistant to weathering and UV;
- Free of silicone, isocyanate and halogen;
- Solvent-Free, odour-free, non-corrosive;
- Sandable & can be painted over even when wet.

SOLAR MODULE ANALYSER



Solar Module Analyser

| Code | Description |
|------------|----------------------------------|
| PROVA200 | Solar Panel Performance Analyser |
| PROVA300XP | Test Result Printer |

- Voltage Range: 0-60VDC
- Current Range: 0-6A
- I-V Curve Test for Solar Cell
- Pmax Search by Auto-Scan (60V, 6A)
- Maximum Voltage (Vmax) At Pmax
- Maximum Current (Imaxp) At Pmax
- Voltage At Open Circuit (Vopen)
- Current at Short Circuit
- Calculation of Efficiency (%)
- Manual Single Point Test

PV INSTALLATION SAFETY TESTER

Eutotest PV

| Code | MI-3108 |
|------|---------|
|------|---------|

Photovoltaic Installation

| | |
|-------------|---|
| Voltage | 0 - 999 VAC/DC I-V: 0 - 999 VDC |
| Current | Panel: 0 - 300 ADC Invert: 0 - 300 AAC I-V: 0 - 15 ADC |
| Power | Panel: 0 - 999 kW I-V: 0 - 14.99 kW |
| U / I Curve | 1000V / 15A / 15kW |
| Irradiation | 0 - 1.75 kW/m ² |
| Temperature | -10 - + 85°C |

Electrical Installation

| | |
|------------------------------------|---|
| Insulation resistance (EN 61557-2) | Test Voltages = 50, 100, 250, 500, 1k VDC: R: up to 999 MΩ |
| Continuity 7mA/200mA (EN 61557-4) | 0.0 - 1999 Ω |
| Loop/Line Impedance (EN 61557-3) | 0.0 - 9.99 kΩ |
| Voltage | 0 - 550 VAC |
| Frequency | 0.0 - 499.9 Hz |
| Phase sequence (EN 61557-7) | 1.2.3 or 3.2.1 |
| RCD testing (EN 61557-6) | ΔN: 10mA, 30mA, 100mA, 300mA, 500mA, 1A |
| Trip-out time | 0 - 40 ms |
| Trip-out current | 0.2 - 2.2 x ΔN |
| Earth resistance (EN 61557-5) | 0.0 - 9999 Ω |
| Energy | 0.0 - 999 kWh |
| Harmonics | up to 11th |
| Power supply | 6 x 1.2 V NiMH batteries, type AA |
| Overtoltage category | CAT II / 1000 VDC; CAT III / 600 V; CAT IV / 300V |
| COM port | RS232 and USB |



Photovoltaic Installations:

- Calculation of STC values: the measured current and voltage values are, according to environment conditions, recalculated to Standard Test Condition values
- Graphical representation of the I-V characteristic of PV module or string
- Power and efficiency measurements: 2 voltage & 2 current channels for simultaneous AC & DC parameters measurements.
- PV Remote Unit: Optional unit for simultaneous measurements of solar irradiation and temp of PV module

Electrical installations:


- RCD Auto: Automated RCD testing procedure
- Trip Lock function
- B type RCD testing: is supported.
- Earth resist. measurement - Optional accessories required
- Online voltage monitoring
- Scope function
- Harmonics analysis: up to 11th harmonics
- Memory: Up to 1800 test or up to 500 graphical results
- BT connectivity: it enables BT communication with Android tablets and smart phones via optional BT dongle.

See the full specification sheet on www.acdc.co.za

Accessories

| | | | | | | |
|-------------|--------------------|----------------|------------------------|---------------------|------------------------|------------------|
| for MI-3108 | Low range, leakage | | | | | |
| | | | | | | |
| Code | A1378 | A1018-M | A1401 | A1391 | A2026 | A1436 |
| | Eurotest PV Remote | Current Clamp | Tip Commander (3-wire) | AC/DC Current Clamp | Earth 20m Set (3-wire) | Bluetooth Dongle |


PV CONNECTORS



PV MC4 Male Branch Connector

| Code | Description | Pack |
|----------|-------------------|------|
| 905229-1 | PV MC4 FMM Branch | 1 |


- For secure and easy connection of PV modules in parallel
- FMM = Female / Male / Male Connectors



PV MC4 Female Branch Connector


| Code | Description | Pack |
|----------|-------------------|------|
| 905228-1 | PV MC4 MFF Branch | 1 |

- For secure and easy connection of PV modules in parallel
- MFF = Male/ Female/ Female Connectors




PV MC4 Male Coupling Connector

| Code | Cable Size | Cable Ø mm | Spare Pin |
|-----------------------|----------------------|------------|---------------|
| PV-ST01/M1 | 2.5-4mm ² | 4.7 - 6 | PV-ST01/PINM1 |
| PV-ST01/M2 | 4 - 6mm ² | 5.6 - 6.9 | PV-ST01/PINM2 |
| NEW PV-ST01/M3 | 10mm ² | 6.9 - 8.7 | PV-ST01/PINM3 |




PV MC4 Female Coupling Connector

| Code | Cable Size | Cable Ø mm | Spare Pin |
|-----------------------|----------------------|------------|---------------|
| PV-ST01/F1 | 2.5mm ² | 3 - 6 | PV-ST01/PINF1 |
| PV-ST01/F2 | 4 - 6mm ² | 6.5 - 7.5 | PV-ST01/PINF2 |
| NEW PV-ST01/F3 | 10mm ² | 6.9 - 8.7 | PV-ST01/PINF3 |




PV MC4 Male Panel Mounting Connector

| Code | Cable Size | Spare Pin |
|------------|------------------------|---------------|
| PV-PM01/M1 | 2.5 - 4mm ² | PV-ST01/PINM1 |
| PV-PM01/M2 | 4 - 6mm ² | PV-ST01/PINM2 |



PV MC4 Female Panel Mounting Connector


| Code | Cable Size | Spare Pin |
|------------|------------------------|---------------|
| PV-PM01/F1 | 2.5 - 4mm ² | PV-ST01/PINF1 |
| PV-PM01/F2 | 4 - 6mm ² | PV-ST01/PINF2 |



T4 Connectors For Canadian Solar IP68


| Code | Connector | Cable Size | Cable Ø mm | Pack |
|-----------|-----------|--------------------|------------|------|
| T4-PC-1-F | Female | 4/6mm ² | 4.3 - 6.6 | 1 |
| T4-PC-1-M | Male | 4/6mm ² | 4.3 - 6.6 | 1 |

- Provides lower contact resistance which ensures high product efficiency
- Ratings 1000V/32A



Water Proofing Plugs for MC4


| Code | Description |
|----------|------------------------|
| PV-CAP-F | MC4 Sealing Cap Female |
| PV-CAP-M | MC4 Sealing Cap Male |



PV MC4 Fly-Leads

| Code | Description |
|---------|-----------------------------------|
| SLE-1M | 1m 4mm PV Cable MC Male & Female |
| SLE-2M | 2m 4mm PV Cable MC Male & Female |
| SLE-5M | 5m 4mm PV Cable MC Male & Female |
| SLE-10M | 10m 4mm PV Cable MC Male & Female |


- 1000VDC UV Resistant



PV Panel Box Enclosure IP67

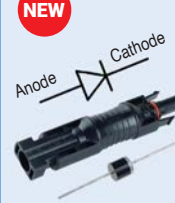
| Code | Description | Cable Size |
|--------|------------------------|-------------------------|
| 903709 | PV panel box enclosure | 2.5 - 10mm ² |

- For connecting to panel contacts
- Durable and weather resistant
- Modules protected by means of one or more diodes
- Temperature Range: -40°C - +90°C
- UV-Resistant
- High-quality contacts
- Material: Contact: CuSn resistant Casing: PC/PA



PV MC4 Inline Fuse Holder

| Code | Fuse Type | Rated Voltage | Rated Current |
|-----------|-----------|---------------|---------------|
| SY-CF4A | 10 x 38mm | 1000VDC | 1-20A |
| SY-CF0-15 | 10 x 85mm | 1500VDC | 1-30A |



PV MC4 Inline Diode

| Code | Description |
|-----------|----------------------|
| SY-CM4A-D | Inline Diode 15A Max |

Rated Voltage: 1000VDC

SOLAR CABLE

- Rated Voltage: 600/1000VAC; 900/1500VDC
- Stranded tin-plated copper insulated with XLPE under a PVC jacket



WIR

Solar Cable (100m roll)

| Code | Colour | Size mm ² | Amps |
|-----------|--------|----------------------|------|
| SW101* BK | Black | 2.5mm ² | 41A |
| SW102* BK | Black | 4mm ² | 55A |
| SW103* BK | Black | 6mm ² | 70A |
| SW110* BK | Black | 10mm ² | 98A |
| SW101* R | Red | 2.5mm ² | 41A |
| SW102* R | Red | 4mm ² | 55A |
| SW103* R | Red | 6mm ² | 70A |
| SW110* R | Red | 10mm ² | 98A |

*Add cut length to code: /5m, /10m, /20m, /50m, /500m, /1000m

BATTERY TERMINALS

| | | | | | |
|----------------------------------|--------------------|------------------|--------------------|----------------------------|--|
| Supplied 2pcs in Hanging Bag | | | | | |
| Code | PRE4X4-2 | PREBC-2 | PREHD-2 | PREHD12-2 | PRELD-2 |
| Terminal Type | 4 X 4 | Battery Cap | Heavy Duty | Heavy Duty | Light Duty |
| Cable Clamp | Universal Clamp | - | Universal Clamp | M12 Bolt | Universal Clamp |
| Material | Terminal P+N Brass | Red+Green Brass | Terminal P+N Brass | Terminal P+N Brass | Terminal P+N Brass |
| Supplied 2pcs in Hanging Bag | | | | | |
| Code | PREMAR-2 | PREQR-2 | PRESTD-2 | PRESTD-2 | JHC150-1 (1Pc) JHC150-2 (2Pc) |
| Terminal Type | Marine | Quick release | Standard | Standard | Standard |
| Cable Clamp | Wingnut | For "PRE" Series | Universal Clamp | Universal Clamp | Universal Clamp |
| Material | Marine Brass | Brass | Terminal P+N Brass | Terminal P+N Nickel Plated | Terminal Lead |

NEW

BATTERY TERMINAL INSULATORS

| | | | | | | | | | | |
|--------------|----------------------------------|----------------|---------------------------|----------------|----------------|------------------------------|----------------|-------------------------------|-----------------|-----------------|
| | 200 Series Lug & Ring Insulators | | | | | Lug & Ring Insulator - Ø40mm | | Tapered Battery Cable Boot | | |
| | Ø14mm | Ø18mm | Ø20mm | Ø22mm | Ø24mm | | | | | |
| Code | 214N1-* | 214N2-* | 218N2-* | 220N3-* | 222N3-* | 224N3-* | 600N3-* | 600N4-* | 415N7V-* | 415N9V-* |
| Entry Size Ø | 3.3mm | 7.6mm | 7.6mm | 12.7mm | 12.7mm | 12.7mm | 12.7mm | 10 x 35mm | 11.2mm | 15.9mm |
| Post Height | 19.1mm | 19.1mm | 22.1mm | 24.1mm | 26.7mm | 28.7mm | 41.1mm | 41.1mm | 18.8mm | 18.8mm |
| | Tapered Snap-on Insulators | | Offset Snap-On Insulators | | | Marine Boot Insulator | | Snap-in Top - For Multi Cable | | |
| | | | | | | | | | | |
| Code | 417N9-* | | 453D9V14 | | | 454D9V02 | | 457N2-* | 457N3-* | 795-* |
| Entry Size | 12.7mm | | 12.7mm | | | 12.7mm | | 8.1mm | 14.0mm | 17.8mm |
| Post Height | 23.1mm | | 18.8mm | | | 18.8mm | | 48.3mm | 48.3mm | 42.38mm |

*Add colour to code: ● BK (Black), ● R (Red)

NEW

POWER CONNECTIONS



4 Point Terminal Busbar - c/w Cover

| Code | No. of Studs | Max. Voltage | Max. Current Rating | Size: H x W x L (mm) |
|----------------|--------------|--------------|---------------------|----------------------|
| 74008N* | 4 x 8mm | 48VDC | 250A @ 12V | 44 x 36 x 165 |
| 74010N* | 4 x 10mm | 48VDC | 250A @ 12V | 44 x 36 x 165 |

*Add colour to code: ● BK (Black), ● R (Red)

Dual 4 Point Terminal Busbar - c/w Cover

| Code | Polarity | No. of Studs | Max. Voltage | Max. Current Rating | Size: H x W x L (mm) |
|----------------|----------|-----------------------|--------------|---------------------|----------------------|
| 738834N | Negative | 4 x 10mm ² | 48VDC | 250A @ 12V | 45 x 76 x 146 |
| | Positive | 4 x 8mm | 48VDC | 250A @ 12V | 45 x 76 x 146 |

ASTERION LEAD-ACID BATTERIES



DTS12100



DTS12200



DTM12100L



GEL12-100

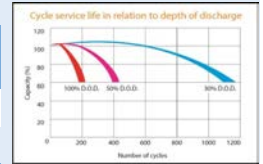


GEL12-200

Asterion DTS - AGM

Suitable for use in UPS and Back-up Power Applications and renewable energy systems

| Code | Nominal Voltage | Nominal Capacity | Terminal | Size (mm) |
|----------|-----------------|------------------|-------------|-----------------|
| DTS12100 | 12V | 100Ah | M6 Terminal | 330 x 173 x 222 |
| DTS12200 | 12V | 200Ah | M8 Terminal | 522 x 238 x 223 |



Asterion DTM(L) - AGM

DTM L refers to a Long-Life series with a service-life up to 12 years. Suitable for use in UPS and Back-up Power Applications and renewable energy systems.

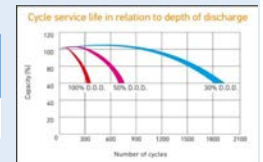
| Code | Nominal Voltage | Nominal Capacity | Terminal | Size (mm) |
|-----------|-----------------|------------------|-------------|-----------------|
| DTM12100L | 12V | 100Ah | M6 Terminal | 330 x 171 x 220 |



Asterion GEL - AGM+GEL

Equipped with a built-in LCD display showing the battery status: voltage, charge level and operating time. Recommended for use in autonomous power systems and renewable energy systems.

| Code | Nominal Voltage | Nominal Capacity | Terminal | Size (mm) |
|-----------|-----------------|------------------|-------------|-----------------|
| GEL12-100 | 12V | 100Ah | M6 Terminal | 333 x 173 x 222 |
| GEL12-200 | 12V | 200Ah | M8 Terminal | 522 x 239 x 222 |



DEEP CYCLE BATTERIES

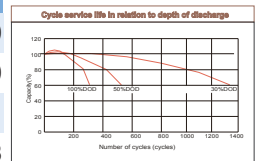
Deep Cycle AGM

* Battery sizes may be changed by manufacturer

Deep cycle Battery is specially designed for frequent cycling applications. This battery uses high-tin alloy positive plate, active paste materials and stronger electrolyte, which gives 30% longer life.



| Code | Nominal Voltage | Nominal Capacity | Terminal type | *Size (mm) |
|----------|-----------------|------------------|---------------|-----------------|
| SY12035 | 12V | 35Ah | M5 | 196 x 131 x 180 |
| SY12045 | 12V | 45Ah | M6 | 197 x 166 x 170 |
| SY12065 | 12V | 65Ah | M6 | 350 x 167 x 181 |
| SY120102 | 12V | 102Ah | M6 | 331 x 173 x 218 |
| SY120200 | 12V | 200Ah | M8 | 522 x 240 x 240 |



DEEP CYCLE SOLAR BATTERIES

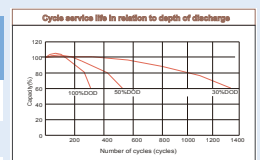
AGM / Gel Solar Batteries

- Reduce Cell failure due to premature dry-out
- Extend cycle service life by reducing plate corrosion
- Gelled Thixotropic Electrolyte

Note: Please ensure that the inverter/charger used can be set up with gel specific charging parameters.



| Code | Nominal Voltage | Nominal Capacity | Terminal | Size (mm) |
|-----------|-----------------|------------------|-------------|-----------------|
| NSB065-12 | 12V | 65Ah | M6 Terminal | 350 x 167 x 183 |
| NSB100-12 | 12V | 100Ah | M6 Terminal | 328 x 172 x 220 |
| NSB200-12 | 12V | 200Ah | M8 Terminal | 522 x 240 x 240 |
| NSB250-12 | 12V | 250Ah | M8 Terminal | 520 x 268 x 240 |



NEW

MOBILE POWER LITHIUM BATTERIES

13V Mobile Power Series IP56

Mobile Power Series range is perfectly positioned as a drop-in replacement for the normal Lead Acid battery, giving you a high-quality, light and ultra-reliable solution for your home, vehicle use, outdoor and security.

3 Year Warranty



IP54
WITH BUILT-IN BLUETOOTH MONITORING

| Code | BN13V-8-104WH | BN13V-11-140WH | BN13V-22-280WH | BN13V-108-1.4K | BN13V-108-1.4K-BT |
|------------------------------------|-----------------|------------------|------------------|-------------------|--------------------|
| Capacity @ C10, 25°C | 104Wh / 8Ah | 140Wh / 11Ah | 280Wh / 22Ah | 1400Wh / 108Ah | 1400Wh / 108Ah |
| Nominal Voltage | 13VDC | | | | |
| Discharge Current (Cont/Burst 30s) | 1.44A / 7.2A | 11A / 20A | 20A / 40A | 110A / 160A | Rec: 50A/Max: 100A |
| Cycle Life @ 100% DoD, 0.1C, 25°C | > 2000 cycles | | | | |
| Cycle Life @ 80% DoD, 0.1C, 25°C | > 3000 cycles | | | | |
| Cycle Life @ 50% DoD, 0.1C, 25°C | > 5000 cycles | | | | |
| Dimensions (W x D x H) | 150 x 65 x 95mm | 151 x 99 x 100mm | 181 x 77 x 167mm | 330 x 173 x 220mm | 330 x 175 x 195mm |
| Net Weight | 1.3kg | 1.5kg | 2.6kg | 14kg | 12.5kg |

- Ultra-safe Lithium Iron Phosphate (LiFePO4) technology
- Integrated battery management System (BMS)
- Light weight & compact
- Highly durable ABS enclosure
- 3 Year Limited Warranty



26V Mobile Power Series IP56



| Code | BN13V-154-2K | BN13V-218-2.8K | BN26V-50-1.3K | BN26V-108-2.8K |
|-----------------------------------|-------------------|-------------------|-------------------|--------------------|
| Capacity | 2002Wh / 154Ah | 2800Wh / 218Ah | 1300Wh / 50Ah | 2808Wh / 108Ah |
| Nominal Voltage | 13VDC | | 26VDC | |
| Discharge Current (Cont) | 150A | 100A | Rec: 10A/Max: 50A | Rec: 20A/Max: 100A |
| Cycle Life @ 100% DoD, 0.1C, 25°C | > 2000 cycles | | > 2000 cycles | |
| Cycle Life @ 80% DoD, 0.1C, 25°C | > 3000 cycles | | > 3000 cycles | |
| Cycle Life @ 50% DoD, 0.1C, 25°C | > 5000 cycles | | > 5000 cycles | |
| Dimensions (W x D x H) | 327 x 172 x 218mm | 522 x 240 x 245mm | 327 x 172 x 218mm | 522 x 239 x 221mm |
| Net Weight | 20kg | 27kg | 13.5kg | 25.6kg |

NEW

RACK-MOUNT LITHIUM BATTERY

RacPower Range

- Developed to support business and telecommunications industries
- Can be mounted in 19" server cabinets
- Up to 9 x units (46kWh) can be connected in parallel
- Battery anti-theft CryptoLock functionality for **BN52V-100-5.2k-BP**
- Serial communication compatible with leading inverter brands (CAN/RS485)
- 10 Year Limited Warranty

Daily use



Backup Power



| Code | BN52V-100-5.2K-DU | BN52V-100-5.2K-BP |
|------------------------------|-------------------------|-------------------------------------|
| Capacity | 5120Wh | 5120Wh |
| Nominal Voltage | 51.2V | 51.2V |
| Max. Cont. Charge Current | 60A ≤ 60A recommended | 50A ≤ 30A recommended |
| Max. Cont. Discharge Current | 100A | 100A for 30mins ≤ 70A recommended |
| Life Cycles @ 100% DoD, 0.5C | 5000 cycles | 3000 cycles |
| Life Cycles @ 80% DoD, 0.5C | 7500 cycles | 4500 cycles |
| Dimensions (W x D x H) | 483 x 520 x 178mm | 481 x 435 x 135mm |
| Net Weight | 55kg | 43kg |

Accessories

| Code | Description |
|-----------------|--|
| BN52V-DU-1-BRKT | Wall Mounting Bracket for 1 x BN52V-100-5.2K-DU/BP |
| BN52V-DU-2-BRKT | Wall Mounting Bracket for 2 x BN52V-100-5.2K-DU/BP |



BN52V-DU-1- BRKT



BN52V-DU-2- BRKT

NEW

LITHIUM BATTERIES

High Current (HC) Range

- High performance ultra-reliable Lithium Iron Phosphate chemistry LiFePO4
- Fully rechargeable in as little as 1.5 hours (see maximum charging current)
- Serial communication (CANBUS) compatible with leading inverter brands
- On-board monitoring & diagnostics via integrated user interface / display
- Marine-grade stainless steel enclosure
- 10 Year product warranty
- < 2% Self discharge per month



| Nominal Voltage | 13VDC | | 26VDC | | |
|------------------------------------|--------------------------|--------------------------|--------------------------|---------------------------|---------------------------|
| Code | BN13V-280-3.6K-HC | BN13V-560-7.3K-HC | BN26V-280-7.3K-HC | BN26V-560-14.5K-HC | BN26V-840-21.8K-HC |
| Capacity @0.5C, 25°C | 3640Wh | 7280Wh | 7280Wh | 14560Wh | 21840Wh |
| Max. Continuous Charge / Discharge | 250A | 320A | 240A | 320A | 320A |
| Cycle Life @100% DoD @0.5C, 25°C | 3600 Cycles (20% fade) | | 3600 Cycles (20% fade) | | |
| Cycle Life @80% DoD @0.5C, 25°C | 5000 Cycles (20% fade) | | 5000 Cycles (20% fade) | | |
| Cycle Life @70% DoD @0.5C, 25°C | 7000 Cycles (20% fade) | | 7000 Cycles (20% fade) | | |
| Warranty | 10 Years | | 10 Years | | |
| Communication | CAN Port | | CAN Port | | |
| Dimensions (mm)(WxDxH) | 510 x 210 x 310 | 800 x 210 x 310 | 800 x 210 x 310 | 1600 x 420 x 620 | 3200 x 840 x 1240 |
| Weight | 40kg | 80kg | 80kg | 170kg | 270kg |

| Nominal Voltage | 52VDC | | | | |
|------------------------------------|---------------------------|-------------------------|---------------------------|----------------------------|----------------------------|
| Code | BN52V-280-14.5K-HC | BN52V-560-29K-HC | BN52V-840-43.6K-HC | BN52V-1120-58.2K-HC | BN52V-1400-72.8K-HC |
| Capacity @0.5C, 25°C | 14560Wh | 29120Wh | 43680Wh | 58240Wh | 72800Wh |
| Max. Continuous Charge / Discharge | 240A | 320A | 720A | 960A | 960A |
| Cycle Life @100% DoD @0.5C, 25°C | 3600 Cycles (20% fade) | | | | |
| Cycle Life @80% DoD @0.5C, 25°C | 5000 Cycles (20% fade) | | | | |
| Cycle Life @70% DoD @0.5C, 25°C | 7000 Cycles (20% fade) | | | | |
| Warranty | 10 Years | | | | |
| Communication | CAN Port | | | | |
| Dimensions (mm)(WxDxH) | 1600 x 420 x 620 | 3200 x 840 x 1240 | 800 x 720 x 1250 | 800 x 720 x 1250 | 1400 x 720 x 1250 |
| Weight | 170kg | 340kg | 500kg | 700kg | 270kg |

NEW

BATTERY MONITORING AND CONTROL



The BlueNova BMAC has been designed to integrate BlueNova with inverter system. The BMAC will handle all serial (CAN/RS485) communication between a BlueNova battery and listed compatible inverter systems and provide remote system monitoring and control functionality.

BMAC - Battery BMS with integrated WiFi Module for Local & Remote Monitoring

| Code | BMAC-WIFI |
|----------------|--|
| Supply Voltage | 7-100VDC |
| Comms Ports | <ul style="list-style-type: none"> • RS485 Port (RJ45) • Inverter CAN Port (RJ45) • Battery BMS CAN Port (RJ45) • USB Port (Micro) |

Kit Includes

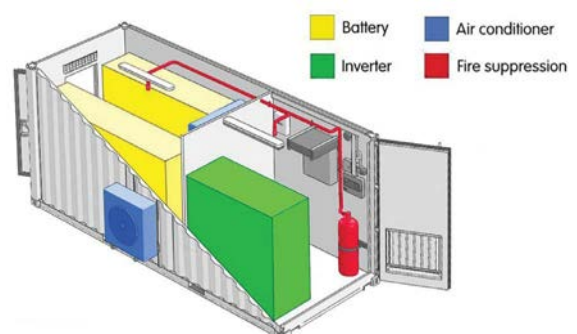
- DC Power Supply
- CAN Cable
- RS485 Cable
- USB Cable

NEW

INTELLIGENT ENERGY STORAGE SYSTEM

The BlueNova® iESS is a Containerised intelligent Energy Storage System, equipped with:

- One or more battery inverters
- High voltage lithium ion battery pack with a life expectancy rating of up to 20 years under normal operating conditions
- BMS (Battery Management System)
- RMaC (Remote Monitoring and Control) which is the EMS (Energy management System)
- HVAC to maintain ideal operating temperature
- Fire suppression system if necessary
- Access control system if necessary
- Station DC system, Emergency stop and Internal electrical distribution complete and ready to plug and play into the network. Multiple of these containers can be installed in parallel to provide increased power and energy levels.



Please contact our Solar Sales Team for assistance with designing a solution engineered to meet your project requirements.

SOLAR

NEW

LiFeP04 BATTERIES



| Code | SPF12-7.5 | SPF12-8-HD | SPF12-10 | SPF12-20 | SPF12-40 | SPF12-50 |
|---------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|
| Nominal Voltage | 12.8V | 12.8V | 12.8V | 12.8V | 12.8V | 12.8V |
| Nominal Capacity | 7.5Ah | 8Ah | 10Ah | 20Ah | 40Ah | 50Ah |
| Energy | 96Wh | 102.4Wh | 128Wh | 256Wh | 512Wh | 640Wh |
| Max Cont. Discharge | 20A | 24A | 20A | 20A | 50A | 50A |
| Terminal | 6.3mm Fast On | 6.3mm Fast On | 6.3mm Fast On | M5 | M6 | M8 |
| Weight | 1kg | ~1.5kg | 1.5kg | 2.5kg | 5.5kg | 5.5kg |
| Dimensions [L*W*H] | 151 x 65 x 100mm | 151 x 65 x 100mm | 181 x 77 x 167mm | 181 x 77 x 167mm | 196 x 166 x 171mm | 223 x 150 x 178mm |
| Cycle Life | ≥25000 times | ≥1500 times | ≥25000 times | ≥25000 times | ≥2500 times | ≥25000 times |



| Code | SPF12-60 | SPF12-100 | SPF12-200 | SPF26V-100 | SPF26V-200 |
|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Nominal Voltage | 12.8V | 12.8V | 12.8V | 25.6V | 25.6V |
| Nominal Capacity | 60Ah | 100Ah | 200Ah | 100Ah | 200Ah |
| Energy | 768Wh | 1280Wh | 2560Wh | 2560Wh | 5120Wh |
| Max Cont. Discharge | 50A | 100A | 200A | 100A | 150A |
| Terminal | M8 | M8 | M8 | M8 | M8 |
| Weight | 7.5kg | 11.5kg | 27kg | 23kg | 42kg |
| Dimensions [L*W*H] | 260 x 169 x 210mm | 330 x 172 x 215mm | 522 x 240 x 218mm | 532 x 207 x 215mm | 520 x 269 x 220mm |
| Cycle Life | ≥25000 times | ≥2500 times | ≥25000 times | ≥25000 times | ≥2500 times |

Features:

- Uses environmentally friendly materials, the module is non-toxic and pollution-free.
- Flat design, supports wall-mounted or 19 inch rack (5.3kWh).
- Modular design, easy to expand
- Cobalt Free Lithium Iron Phosphate (LFP) for long lifespan, high efficiency and high-energy density

Rack or Wall Mounting

Wall Mount



| Code | DEYE-SE52V-G5.3KWH | DEYE-RW52V-M5.3K-WM | DEYE-RW52V-F10.6K-WM |
|-------------------------------------|--|--|--|
| Nominal Voltage | 51.2V | 51.2V | 51.2V |
| Nominal Capacity | 5320Wh/104Ah | 5320Wh/104Ah | 10640Wh/208Ah |
| Cycle Life | ≥ 6000 Cycles @ 90% DoD, 0.3C | | |
| Communication Port | RS485 & CAN | | |
| Max. Cont. Charge/Discharge Current | 100A | 100A | Charge: 200A / Discharge: 250A |
| Warranty | 10 Years | | |
| Weight | 44kg | 45kg | 95kg |
| Dimensions (W*D*H) | 440 x 133 x 560mm | 440 x 620 x 140mm | 600 x 750 x 200mm |
| Scalability | Max. 64 units in parallel to a Max. capacity of 340 kWh | Max. 32 units in parallel to a Max. capacity of 170 kWh | Max. 32 units in parallel to a Max. capacity of 340 kWh |
| Accessories | Rack Mounting Bracket and screws, Power Cable Set, Wall mounting Bracket and Communication Cable | Power Cable Set, Wall mounting Bracket and Communication Cable | Power Cable Set, Wall mounting Bracket (Fixed Support), Base (Installed on the unit) and Communication Cable |

LITHIUM BATTERIES

| | Rack Mount LiFePO4 | Wall Mount LiFePO4 |
|-----------------------------|-----------------------------|-----------------------------|
| | | |
| Code | RESI-51100RM-5.1KWH | RESI-51100WM-5.1KWH |
| Nominal Voltage | 51.2V | 51.2V |
| Nominal Capacity | 5120Wh / 100Ah | 5120Wh / 100Ah |
| Cycle life | >6000 (0.5C@ 25°C, 80% DOD) | >6000 (0.5C@ 25°C, 80% DOD) |
| Communication Port | RS232, RS485, CAN | RS232, RS485, CAN |
| Max. Cont. Charge/Discharge | 100A / 100A | 100A / 100A |
| Weight | 45kg | 49kg |
| Dimensions | 155 x 442 x 470mm | 550 x 400 x 175mm |

Features

- Up to 16 battery packs in parallel
- Each module has own protection functions
- Compatible with most inverter brands for communication through RS485,CAN
- LCD Display for viewing battery voltage, current, temp & SoC

Accessories Included

- Power cable set
- Communication Cable

| | Rack Mount | Rack Mount | Wall Mount | Wall Mount | Wall Mount |
|-----------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | | | | | |
| Code | LFP26V-100-2.5K-RM | LFP52V-100-5.2K-RM | LFP26V-100-2.5K-WM | LFP52V-100-5.2K-WM | LFP52V-200-10K-FS |
| Nominal Voltage | 25.6V | 51.2V | 25.6V | 51.2V | 51.2V |
| Nominal Capacity | 2560Wh/100Ah | 5120Wh/100Ah | 2560Wh/100Ah | 5120Wh/100Ah | 10240Wh/200Ah |
| Cycle Life | ≥6000 Cycles @ 80% DoD, 0.5C | ≥6000 Cycles @ 80% DoD, 0.5C | ≥6000 Cycles @ 80% DoD, 0.5C | ≥6000 Cycles @ 80% DoD, 0.5C | ≥6000 Cycles @ 80% DoD, 0.5C |
| Communication Port | RS485 & CAN | RS485 & CAN | RS485 & CAN | RS485 & CAN | RS485 & CAN |
| Max. Cont. Charge/Discharge | 50A / 100A | 50A / 100A | 50A / 100A | 50A / 100A | 100A / 150A |
| Warranty | 5 Years | 5 Years | 5 Years | 5 Years | 5 Years |
| Weight | 30kg | 42kg | 30kg | 48kg | 85kg |
| Dimensions [W*D*H] | 374 x 440 x 150mm | 374 x 527 x 150mm | 350 x 480 x 156mm | 450 x 650 x 156mm | 450 x 770 x 156mm |

Features

- LCD for viewing battery voltage, current, temp & S oC
- BMS with protection functions: like over-discharge over-charge, over-current, abnormal temperature.
- Passive Cell balancing
- Up to 16 battery packs in parallel

Accessories Included

- Wall mounting bracket/
Floor mounting base
- Power cable set
- Communication Cable

NEW

LITHIUM BATTERY ACCESSORIES

SOLAR



Wall Mounting Brackets

| Code | Description |
|--------------------|---|
| WMBRKT-1BAT | For 1 Rack Mount Battery up to 4u |
| WMBRKT-2BAT | For 2 Rack Mount Batteries, Flat Pack, up to 8u |



Note: Colour of Cable might vary depending on stock availability.

BMS Communication Cables

| Code | Description |
|------------------------|--|
| CAB-DEYE-BNRP | DEYE to Blue Nova Racpower |
| CAB-LUX-BNRP | LuxPower Blue Dip Switch to Blue Nova Racpower |
| CAB-LUX-DYNSS | Luxpower Red Dip Switch to Dyness |
| CAB-LUXOLD-BNRP | LuxPower Red Dip Switch to Blue Nova Racpower |

LITHIUM BATTERIES

| | Rack Mount | Wall Mount | Wall Mount | Wall Mount |
|------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | | | | |
| Code | ELF52V-100-5.12K-RM | ELF52V-100-5.12K-WM | ELF52V-200-10K-WM | ELF52V-228-11.7K-WM |
| Nominal Voltage | 51.2V | 51.2V | 51.2V | 51.2V |
| Nominal Capacity | 5120Wh/100Ah | 5120Wh/100Ah | 10240Wh/200Ah | 11600Wh/228Ah |
| Cycle Life | ≥6000 Cycles @ 80% DoD, 1C | ≥6000 Cycles @ 80% DoD, 1C | ≥6000 Cycles @ 80% DoD, 1C | ≥6000 Cycles @ 80% DoD, 1C |
| Communication Port | RS485, RS232 and CAN | RS485, RS232 and CAN | RS485, RS232 and CAN | RS485, RS232 and CAN |
| Max Cont. Charge/Discharge Current | 100A | 100A | 200A | 200A |
| Warranty | 10 Years | 10 Years | 10 Years | 10 Years |
| Weight | 40.5kg | 44.5kg | 88kg | 98kg |
| Dimensions [D*W*H] | 490 x 440 x 250mm | 555 x 390 x 150mm | 590 x 375 x 245mm | 575 x 755 x 195mm |

Features

- Up to 15 battery packs in parallel
- Intelligent BMS compatible with most inverter brands in market
- A grade LiFePO4 Lithium Iron Phosphate cells
- Can be easily installed to stand on floor or hang on the wall *(Wall Mount Type)
- Active cell balancing
- LCD for easy viewing of battery status

Accessories Included

- Power Cable set for Batteries (Included)
- Communication Cable

| | Rack Mount | Rack Mount | Rack Mount | Wall Mount |
|------------------------------------|--|--|--|--|
| | | | | |
| Code | GR-UP3686-3.6KWH | GR-UP5000-5KWH | GR-UP6100-6.1KWH | GR-UP5000-WM-5KWH |
| Nominal Voltage | 51.2V | 51.2V | 51.2V | 51.2V |
| Nominal Capacity | 3686Wh/72Ah | 4960Wh/96.6Ah | 6123Wh/119.6Ah | 4960Wh/96.6Ah |
| Cycle Life | ≥6000 Cycles @ 80% DoD, 1.5C Note: For better battery life charge at 36A(0.5C @ 25°C) | ≥6000 Cycles @ 80% DoD, 1.5C Note: For better battery life charge at 43A(0.5C @ 25°C) | ≥6000 Cycles @ 80% DoD, 1.5C Note: For better battery life charge at 60A(0.5C @ 25°C) | ≥6000 Cycles @ 80% DoD, 1.5C Note: For better battery life charge at 43A(0.5C @ 25°C) |
| Communication Port | RS485, RS232 & CAN | RS485, RS232 & CAN | RS485, RS232 & CAN | RS485, RS232 & CAN |
| Max Cont. Charge/Discharge Current | 50A/115A | 80A/150A | 80A/200A | 80A/150A |
| Warranty | 10 Years | 10 Years | 10 Years | 10 Years |
| Weight | 42kg | 50.88kg | 57kg | 48kg |
| Dimensions [D*W*H] | 222 x 442 x 512mm | 223 x 442 x 512 | 221 x 438 x 536mm | 586 x 3668 x 175.4mm |

Features

- Vertical / Horizontal Installation (Wall Mount)
- Compatible with most inverter brands in market
- Protection functions: like over-discharge over-charge, over-current, abnormal temperature
- Up to 15 units in parallel

Accessories Included

- Wall Mount. Bracket and Floor Base for Wall Mount
- Communication Cable
- Power Cable set

LITHIUM BATTERIES

| | Rack Mount | Rack Mount | Floor or Wall Mount |
|------------------------------------|------------------------------|------------------------------|------------------------------|
| | | | |
| Code | DYN-A48100-4.8KWH | DYBA51100-5KWH | VOLTA-51200-10KWH |
| Nominal Voltage | 48VDC | 51.2VDC | 51.2V |
| Nominal Capacity | 4800Wh/100Ah | 5120Wh/100Ah | 200Ah |
| Cycle Life | ≥6000 Cycles @ 80% DoD, 0.5C | ≥6000 Cycles @ 80% DoD, 0.2C | ≥6000 Cycles @ 80% DoD, 0.2C |
| Communication Port | RS485, RS232 & CAN | RS485 & CAN | RS485, RS232 |
| Max Cont. Charge/Discharge Current | 50A (Recommended) / 75A Max | 50A (Recommended) / 75A Max | 150A |
| Warranty | 10 Years | 10 Years | 5 Years |
| Weight | 45kg | 50kg | 93kg |
| Dimensions | 597 x 504 x 170mm | 558 x 545 x 150mm | 480 x 650 x 225mm |

Features

- Comply with European ROHS, Certified SGS
- BMS with protection functions: like over-discharge over-charge, over-current, abnormal temperature
- Up to 40 battery packs in parallel
- Compact Size and Light Weight
- Safe and reliable LiFePO4 battery replacement
- Can be used in both off-grid and hybrid setups, compact design

Accessories Included:

- Power cable set
- Communication Cable



Accessories

| Code | Description |
|----------|--------------------------------------|
| DYN-ICAB | Input cable set for Dyness Batteries |

| | Rack Mount | Rack Mount | Rack Mount | Rack Mount |
|------------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| | | | | |
| Code | US2000C | UP2500 | US3000C | UP5000 |
| Nominal Voltage | 48VDC | 25.6VDC | 48VDC | 48VDC |
| Nominal Capacity | 2400Wh/50Ah | 2840Wh/110Ah | 3552Wh/74Ah | 4800Wh/75Ah |
| Usable Capacity | 2200Wh | 2550Wh | 3200Wh | 4560Wh |
| Cycle Life | ≥4500 Cycles @ 90% DoD, 25°C | ≥4500 Cycles @ 90% DoD, 25°C | ≥4500 Cycles @ 90% DoD, 25°C | ≥4500 Cycles @ 90% DoD, 25°C |
| Communication Port | RS485 & CAN | RS485 & CAN | RS485 & CAN | RS485 & CAN |
| Max Cont. Charge/Discharge Current | 25A (Recommended) | 56A (Recommended) | 37A, (Recommended) | 75A |
| Warranty | 10 Years | 5 Years | 10 Years | 5 Years |
| Maximum String | 16 | 8 | 16 | 16 |
| Weight | 440 x 410 x 89mm | 442 x 420 x 119mm | 442 x 420 x 132mm | 442 x 420 x 160mm |
| Dimensions [W*D*H] | 24kg | 27.5kg | 32kg | 45Kg |

Features

- Compact and modular design gives the end customer the power of choice of capacity
- Compatible with most of the available hybrid inverters (contact the category specialist for full compatibility list)
- All batteries supplied with brackets for mounting in 19" rack and parallel connection cables
- Integrated BMS protects the battery against abnormal temperature, current, voltage and displays state of charge & battery health



Batteries can be stacked using optional brackets or mounted in 19" rack.



Accessories

| Code | Description |
|--------------|---|
| US2000/PH-BR | Stacking bracket for 2.4kWh |
| US3000-BR | Stacking bracket for 3.5kWh |
| US/PH-ICAB | Input cable set for Batteries |
| LV-HUB | Communication hub for connection of up to 5 battery strings |

NEW INDUSTRIAL & COMMERCIAL HIGH VOLTAGE BATTERY SYSTEM



GR-IS001-090

Kit Contains: Battery Modules, HV Control Box, Battery Racks & Cable Kit



Battery Pack



High Voltage Control Box

Greenrich High Voltage Battery ESS System - for Industrial and Commercial use

| Code | No of Modules | Racks | Nominal Voltage | Nominal Capacity |
|--------------|---------------|-------|-----------------|------------------|
| GR-IS001-040 | 4 | 2 | 204.8V | 96.6Ah/19.78kWh |
| GR-IS001-050 | 5 | 2 | 256.0V | 96.6Ah/24.73kWh |
| GR-IS001-060 | 6 | 2 | 307.2V | 96.6Ah/29.67kWh |
| GR-IS001-070 | 7 | 2 | 358.4V | 96.6Ah/34.62kWh |
| GR-IS001-080 | 8 | 3 | 409.6V | 96.6Ah/39.57kWh |
| GR-IS001-090 | 9 | 3 | 460.8V | 96.6Ah/44.51kWh |
| GR-IS001-010 | 10 | 3 | 512.0V | 96.6Ah/49.46kWh |
| GR-IS001-011 | 11 | 3 | 563.2V | 96.6Ah/54.41kWh |
| GR-IS001-012 | 12 | 4 | 614.4V | 96.6Ah/59.35kWh |
| GR-IS001-013 | 13 | 4 | 665.6V | 96.6Ah/64.30kWh |
| GR-IS001-014 | 14 | 4 | 716.8V | 96.6Ah/69.24kWh |

Features

- Dynamic cylindrical cells, charged at 1C and can be discharged at 1.5C
- Easily expandable, the batteries can be stacked in series to support different voltages
- Compatible with 150-900VDC system
- Temperature Range: -10 to 50°C
- 4000 Cycles

Component Specifications

| Battery Module | HVB50096 |
|--------------------|-------------------|
| Nominal Voltage | 51.2VDC |
| Nominal Capacity | 4946Wh / 96.6Ah |
| Communication Type | CAN |
| Weight | 50kg |
| Dimensions | 438 x 536 x 221mm |

| High Voltage Control Box | HVCB03 |
|--------------------------|-----------------------|
| Working Voltage Range | 150V-900VDC |
| Nominal Current | 100A (125A Max.) |
| Communication | CAN (Battery/PCS/EMS) |
| Weight | 11.5kg |
| Dimensions | 478 x 434 x 133mm |

NEW LITHIUM BATTERIES



- Built-in Wifi with Monitoring App
- Selectable Pin-out for Inverter Communication
- All Accessories to be ordered separately



CFE-ICAB



CFE-PCAB



CFE-WALL-BRKT



CFE-FLOOR-BRKT

Residential Rack Mount Battery

| Code | CFE-5100S-5.1KWH |
|-----------------------------|-----------------------------------|
| Nominal Voltage | 51.2V |
| Nominal Capacity | 5.1kWh / 100Ah |
| Cycle Life | 6000 Cycles @ 80% DoD, 0.2C, 25°C |
| Communication Port | CAN/RS485 |
| Max. Cont. Charge/Discharge | 100A |
| Weight | 51kg |
| Dimensions | 133 x 442 x 500mm |

Accessories

| Code | Description |
|----------------|----------------------------|
| CFE-ICAB | Input Cable Set |
| CFE-PCAB | Parallel Cable Set |
| CFE-WALL-BRKT | Wall Mounting Bracket Set |
| CFE-FLOOR-BRKT | Floor Mounting Bracket Set |

DEYE HV BATTERIES



| Code | DEYE-HV-BOS-12-EU |
|------------------|-------------------|
| No. of Modules | 12 |
| Racks | 1 |
| Nominal Voltage | 614.4V |
| Nominal Capacity | 61.44kWh/100Ah |

Features:

- Low self discharge rate
- Intelligent BMS
- Eco-Friendly
- Working temperature range is from -20°C to 55°C



DEYE-HV-BOS-G5.12KWH



DEYE-HV-B750V/100A-EU



DEYE-HV-3UX12-RACK

Battery Module Specs

| Code | DEYE-HV-BOS-G5.12KWH |
|------------------------------------|------------------------------|
| Nominal Voltage | 51.2V |
| Nominal Capacity | 5120Wh/100Ah |
| Cycle Life | ≥6000 Cycles @ 90% DoD, 0.3C |
| Communication Port | RS485 & CAN |
| Max Cont. Charge/Discharge Current | 100A |
| Warranty | 10 Years |
| Weight | 44kg |
| Dimensions | 440 x 570 x 133mm |

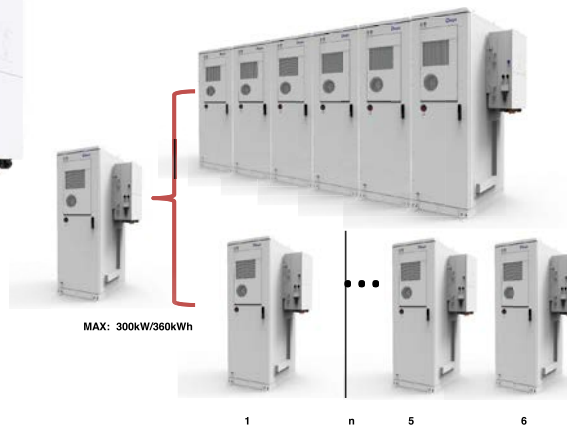
High Voltage Control Box Specs

| Code | DEYE-HV-B750V/100A-EU |
|------------------------------------|-----------------------|
| Working Voltage Range | 120VDC-750VDC |
| Communication Port | RS485 & CAN |
| Max Cont. Charge/Discharge Current | 100A |
| Weight | 15.5kg |
| Dimensions [W*D*H] | 440 x 570 x 150mm |

Rack Specs

| Code | DEYE-HV-3UX12-RACK |
|--------------------|--|
| Scalability | Accommodates a Max of 12 Batteries and a High Voltage Controller Box |
| Dimensions [W*D*H] | 589 x 590 x 2240mm |

Hybrid All-in-one ESS (High Voltage) IP55



| Code | GE-F60 |
|-----------------------------------|--------------------------------------|
| AC Input & AC Output * | |
| Rated Voltage | 400VAC |
| Rated Power | 50KW |
| Battery | |
| Nominal Module Voltage | 51.2VDC |
| Battery Type | LiFePO4 |
| Battery Module Energy | 5.12KWh |
| Number of Modules | 12 |
| Cycle Life | ≥6000 (@25°C±2°C, 0.5C, 70%EOL) |
| Nominal Pack Energy | 61.4KWh |
| Battery Operating Voltage | 500 - 700VDC |
| Display | LCD |
| General Specifications | |
| Installation Style | Floor-Mounted |
| Communications | CAN |
| Battery Module Weight | 45kg |
| Battery Module Dimension | 440 x 570 x 133mm |
| Battery Enclosure Weight | 1015kg (Excl. Inverter) |
| Battery Enclosure Dimension | 735 x 1045 x 2235mm (Excl. Inverter) |

* For detailed Inverter specifications, see Deye 50kW Inverter Specs

- c/w Built-in Air conditioning for cooling the BESS
- Combustible gas, smoke and temperature detection system, active exhaust and fire alarm
- Supports battery expansion, with a maximum capacity of 360KWh
- Lithium battery BMS communication
- Built-in Aerosol Fire Suppression Device

PWM SOLAR CHARGE CONTROLLERS

| | Landstar EU Series | | | | | Daylight Switching & Timer Control | |
|------------------------|--|----------------------|--|----------------------|---|--|---------------|
| | | | | | | | |
| Code | LS0512EU | LS1012EU | LS1024EU | LS2024EU | LS3024EU | LS1024EPD | LS2024EPD |
| Rated Charge Current | 5A | 10A | 10A | 20A | 30A | 10A | 20A |
| Max Load Current | 5A | 10A | 10A | 20A | 30A | 10A | 20A |
| Nominal System Voltage | 12V | 12V | 12/24V Auto | 12/24V Auto | 12/24V Auto | 12/24V Auto | 12/24V Auto |
| Display | LED | LED | LED | LED | LED | LED | LED |
| Max Voc | 30V | 30V | 50V | 50V | 50V | 50V | 50V |
| Dimensions (mm) | 110 x 66 x 21 | 120 x 67 x 22 | 120 x 67 x 22 | 148 x 86 x 35 | 148 x 107 x 44 | 109 x 75 x 26 | 109 x 75 x 26 |
| Features | 5V / 1.2A USB Output | 5V / 1.2A USB Output | 5V / 1.2A USB Output | 5V / 1.2A USB Output | 5V / 2A USB Output | Light & Timer Control for Street or Area Lighting Applications | |
| | <ul style="list-style-type: none"> 3- Stage Intelligent Charging Supports Sealed, Gel or Flooded Battery Types | | <ul style="list-style-type: none"> LED Battery Status Indicator Battery Temperature Compensation | | <ul style="list-style-type: none"> Battery Over / Under Voltage Protection Load Overload / Short Circuit Protection | | |

| | Viewstar AU Series | | | | | | PWM 48V | |
|-------------------------------|---|--------------------------|---|-------------------|---|-------------------|--------------------------|---|
| | | | | | | | | |
| Code | VS1024AU | VS2024AU | VS3024AU | VS3048AU | VS4524AU | VS4548AU | VS6048AU | SLX-410 |
| Rated Charge Current | 10A | 20A | 30A | | 45A | | 60A | 10A |
| Max Load Current | 10A | 20A | 30A | | 45A | | 60A | 10A |
| Nominal System Voltage | 12/24V Auto | 12/24V Auto | 12/24V Auto | 12/24/36/48V Auto | 12/24V Auto | 12/24/36/48V Auto | 12/24/36/48V Auto | 48V |
| Max Voc | 50V | 50V | 50V | 96V | 50V | 96V | 96V | 90V |
| Display | Backlit LCD | Backlit LCD | Backlit LCD | | Backlit LCD | | Backlit LCD | Backlit LCD |
| Self Consumption | ≤18mA | ≤18mA | ≤18mA | | ≤18mA | | ≤18mA | 14mA |
| Dimensions (mm) | 142 x 85 x 42 | 160 x 95 x 50 | 181 x 101 x 60 | | 194 x 118 x 64 | | 214 x 128 x 72 | 188 x 128 x 49 |
| USB For Charging DC Appliance | Double USB 5V / 2.4A Tot | Double USB 5V / 2.4A Tot | Double USB 5V / 2.4A Tot | | Double USB 5V / 2.4A Tot | | Double USB 5V / 2.4A Tot | N/A |
| | <ul style="list-style-type: none"> 3-stage intelligent charging Supports sealed, gel or flooded batteries Battery temperature compensation with external temperature probe Input | | <ul style="list-style-type: none"> Multiple load control modes Energy statistics function | | <ul style="list-style-type: none"> Extensive electronic protection Probe code: RTS300R47K3.81A | | | <ul style="list-style-type: none"> Multi-stage charging Supports sealed, gel or flooded batteries |

MPPT SOLAR CHARGE REGULATORS

Tracer AN Series - c/w Wireless Communication Options & App

| Code | T1206AN | T2206AN | T1210AN | T2210AN | T3210AN | T4210AN | |
|----------------------------|---------------------------|----------------|---------|---------------------------|----------------|----------------|----------------|
| Rated Battery Current | 10A | 20A | 10A | 20A | 30A | 40A | |
| Rated Load Current | 10A | 20A | 10A | 20A | 30A | 40A | |
| Nominal System Voltage | 12/24V | | | | | | |
| Max PV Open Circuit V | 60V | | | 100V | | | |
| MPPT Voltage Range | Battery Voltage +2V - 36V | | | Battery Voltage +2V - 72V | | | |
| Peak Conversion Efficiency | 98% | | | | | | |
| Max PV Input | 12V | 130W | 260W | 130W | 260W | 390W | 520W |
| Power | 24V | 260W | 520W | 260W | 520W | 780W | 1040W |
| Dimensions (mm) | 172 x 139 x 44 | 220 x 154 x 52 | | 172 x 139 x 44 | 220 x 154 x 52 | 228 x 164 x 55 | 252 x 180 x 63 |

- Advanced MPPT Technology
- Ultra Fast Tracking Speed & wide MPPT Voltage Range
- Programmable Battery Types & Load Control
- Automatic PV Power Limitation Function
- Backlit Multifunction LCD Display
- 3-Stage Battery Charging with temp. compensation
- RS485 Port with Industrial Standard Modbus Open Architecture
- Programmable via Remote Meter, PC or Smart Phone App

Accessories

| Code | Description |
|-----------------|----------------------------|
| MT50 | Remote meter with 2m Cable |
| EBOX-BLE-01 | Bluetooth Adaptor |
| EBOX-WIFI-01 | Wifi Adaptor |
| RTS300R47K3.81A | Remote Temperature Probe |



EBOX-BLE EBOX-WIFI



MT50

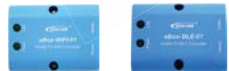


RTS300R47K3.81A

MPPT SOLAR CHARGE REGULATORS



SOL



EBOX-BLE EBOX-WIFI



MT50

NEW
NEW
NEW
NEW



RS485-USB

iTracer Series - Now with Expanded Communication / Monitoring Options

| Code | IT3415ND-30 | IT4415ND-45 | IT6415ND-60 |
|----------------------------|----------------------------|-------------|-------------|
| Rated Battery Current | 30A | 45A | 60A |
| Rated Load Current | 30A | 45A | 60A |
| Nominal System Voltage | 12/24/36/48V Auto | | |
| Max PV Open Circuit V | 150V | | |
| MPPT Voltage Range | Battery Voltage +2V - 108V | | |
| Peak Conversion Efficiency | 98% | | |
| Max PV Input Power | 12V | 24V | 36V |
| | 400W | 800W | 1200W |
| | 600W | 1200W | 1800W |
| | 800W | 1600W | 2400W |
| | 1600W | 2400W | 3200W |
| Dimensions (mm) | 358x219x102 | 382x231x107 | 440x231x110 |

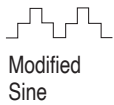
Accessories

| Code | Description |
|--------------|---|
| RS485-USB | PC Communication Cable RS485 to USB |
| MT50 | Remote Meter |
| EBOX-BLE-01 | Bluetooth Adaptor |
| EBOX-WIFI-01 | Wifi Adaptor |
| RS485-RJ45 | Communication Cable for Remote Meter and Communication Adaptors |

- Advanced MPPT algorithm
- Multi-phase sync rectification technology realizing peak conversion efficiency 98%
- Dual-core (ARM CPU+DSP) control architecture improves the system response speed and optimizes the performance of the system
- Multi-phase control technology, optimizes charging current smoothness, reduces ripple and improves the system efficiency
- Diversified load control mode
- Programmable battery management parameters
- Built-in running data and event logging (Max 15 months)
- Extensive communication capabilities (RS232, RS485 with Modbus protocol, CAN Bus extendable)
- Real time monitoring and parameter setting via software, remote meter or mobile App
- Field upgradable firmware

Note: for iTracer **RS485-RJ45** communication cable must be purchased when using remote meter or communication adaptors

MODIFIED SINE WAVE INVERTERS



Modified Sine

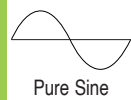


| Code 12V | PM-A-0150AH12 | PM-A-0300AH12 | PM-A-0600AH12 | PM-A-1000AH12 | PM-A-1200AH12 | PM-A-1500AH12 | PM-A-2500AH12 | PM-A-3000AH12 |
|-----------------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| Code 24V | - | - | PM-A-0600AH24 | PM-A-1000AH24 | PM-A-1200AH24 | PM-A-1500AH24 | PM-A-2500AH24 | PM-A-3000AH24 |
| Max Cont. Power | 150W | 300W | 600W | 1000W | 1200W | 1500W | 2500W | 3000W |
| Peak Power | 300W | 600W | 1200W | 2000W | 2400W | 3000W | 5000W | 6000W |
| Size (mm) | 115 x 101 x 63 | 189 x 101 x 63 | 245 x 176 x 85 | 275 x 208 x 77 | 275 x 208 x 77 | 325 x 200 x 77 | 345 x 230 x 108 | 420 x 250 x 108 |
| Code 12V with charger | | | PM-A-0700CA12 | PM-A-1000CA12 | PM-A-1200CA12 | PM-A-1500CA12 | PM-A-2500CA12 | - |
| Code 24V with charger | | | PM-A-0700CA24 | PM-A-1000CA24 | PM-A-1200CA24 | PM-A-1500CA24 | PM-A-2500CA24 | - |

- AC Output Voltage: 230VAC/50Hz
- Regulation $\pm 0.5\%$
- Low Voltage Shut Down 12 / 24: 9.8V / 19.12V
- Overload protection
- DC Input/ AC Output short circuit protection
- All inverters supplied with cables



PURE SINE WAVE INVERTERS



Pure Sine



Inverters






| Code 12V | P300-12-2 | P600-12-2 | P1000-12-2 | P1500-12-2 | P2000-12-2 | P3000-12-2 | - | - | - |
|----------------|--|------------|------------|-------------|------------|-------------|-------------|------------|-------------|
| Code 24V | P300-24-2 | P600-24-2 | P1000-24-2 | P1500-24-2 | P2000-24-2 | P3000-24-2 | BP4000W-24 | BP5000W-24 | BP6000W-24 |
| Code 48V | P300-48-2 | P600-48-2 | P1000-48-2 | P1500-48-2 | P2000-48-2 | P3000-48-2 | BP4000W-48 | BP5000W-48 | BP6000W-48 |
| Rated Power | 300W | 600W | 1000W | 1500W | 2000W | 3000W | 4000W | 5000W | 6000W |
| Surge Power | 600W | 1200W | 2000W | 3000W | 4000W | 6000W | 8000W | 10 000W | 12 000W |
| Output | 230V 50/60Hz $\pm 3\%$ Pure Sine Wave | | | | | | | | |
| Protection | Battery Low Voltage Alarm & Shutdown, Overload, Over Temperature, Over Voltage, Short Circuit, Reverse Polarity, Earth Leakage | | | | | | | | |
| Dimensions(mm) | 260x150x58 | 260x150x78 | 293x150x98 | 405x230x108 | | 460x230x108 | 465x200x145 | | 518x200x145 |

Inverter / Charger - With Automatic Changeover

| Code 12V | - | CPS600-12-2 | CPS1000-12-2 | CPS1500-12-2 | CPS2000-12-2 | BPC3000W-12 | - | - | - |
|--------------|---|-----------------|--------------|-----------------|--------------|---------------------------|-------------|-------------|-------------|
| Code 24V | - | CPS600-24-2 | CPS1000-24-2 | CPS1500-24-2 | CPS2000-24-2 | BPC3000W-24 | BPC4000W-24 | - | - |
| Code 48V | - | - | - | - | - | BPC3000W-48 | BPC4000W-48 | BPC5000W-48 | BPC6000W-48 |
| Charger Size | - | 12V/10A, 24V/5A | | 12V/15A, 24V/8A | | 12V/30A, 24V/15A, 48V/10A | | | |

PRECISION BATTERY MONITORING

Calculate ampere-hours consumed and the state of the charge of a battery. Ampere-hours consumed is calculated by integrating the current flowing in or out of the battery. These Monitors are based on a powerful micro-processors programmed with algorithms for precision monitoring.

| | | | | | | |
|----------------------------------|---|---|---|--|--|---|
| Smart Phone monitoring & control |  |  |  | NEW  |  | <ul style="list-style-type: none"> • Bluetooth Smart = Use Bluetooth Smart dongle (VED-BT) to enable remote monitoring or easy programming via the Victron Connect BMV App • Programmable visual / audio alarms • Battery Voltage, Current, Power, Ampere hours consumed, state of charge displayed • Remaining time at present rate of discharge • Wide input voltage range • High current measurement resolution 10mA (0.01A) • Low current consumption 2.9Ah per month (4mA @12V AN) • c/w 500A/50mV quick connect PCB current shunt • VE. Direct Communication • Programmable relay to turn off non-critical loads |
| Code | BMV700 | BMV702 | BMV712 | VWB-BMV | Wall Mounted Display Enclosure | |
| Input Voltage | 6.5 - 95VDC | 6.5 - 95VDC | 6.5 - 70VDC | | | |
| Current Drawn | <4mA | <4mA | <1mA | | | |
| Battery Capacity | 20 - 9999AH | 20 - 9999AH | 20 - 9999AH | | | |
| Comm Port | Yes | Yes | Yes & Bluetooth | | | |
| Potential Free Contacts | 60V/1A(N/O) | 60V/1A(N/O) | 60V/1A(N/O) | | | |
| Dimensions | 69 x 69mm | 69 x 69mm | 69 x 69mm | | | |
| Additional Features | - | • Input to measure voltage of 2nd battery, mid point voltage or temp. | • As per BMV702 + Built-in Bluetooth connectivity - No dongle required | | | |
| Accessories | - | BMV7-TEMP | BMV7-TEMP | | | |

INTELLIGENT BATTERY COMBINER IP22

CBC-12/24-120A



CBC-12/24-230A

Used in 2 battery systems where the charging of one battery must be prioritised eg. Motor Homes or Boats. Micro-processor logic monitors the trend of the battery condition and ignores short high ampere load conditions and low voltage levels due to discharged battery. Time delays depend on the voltage deviation from the trend. Over temperature protection will disconnect the units and reconnect when cooled down.

| Code | CBC-12/24-120A | CBC-12/24-230A |
|---------------------|--------------------------|--------------------------|
| LED Status | No | Yes |
| Continuous Current | 120A | 230A |
| Crank Rating (5sec) | 180A | 500A |
| Connect Volts | 13 - 13.8 / 26 - 27.6VDC | 13 - 13.8 / 26 - 27.6VDC |
| Disconnect Volts | 11 - 12.8 / 22 - 25.7VDC | 11 - 12.8 / 22 - 25.7VDC |
| Dimensions (mm) | 46 x 46 x 80 | 65 x 100 x 50 |

NEW

ORION DC TO DC CONVERTER IP43

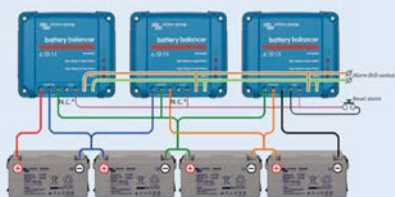
Orion Isolated DC-DC Converters - 240W



| Code | OR-DC/DC-12/24-10 | OR-DC/DC-24/12-20 | OR-DC/DC-24/48-6 | OR-DC/DC-48/12-20 | OR-DC/DC-48/24-12 |
|--|-------------------|-------------------|------------------|-------------------|-------------------|
| Input Voltage Range | 8 - 17V | 16 - 35V | 16 - 35V | 32 - 70V | 32 - 70V |
| Nominal Output Voltage | 24.2V | 12.2V | 48.2V | 12.2V | 24.2V |
| Output Voltage adjust range | 20 - 30V | 10 - 15V | 40 - 60V | 10 - 15V | 20 - 30V |
| Cont. Output Current at nominal Voltage & 40°C | 10A | 20A | 6A | 20A | 12A |

- Remote on-off • High temperature protected
- Adjustable Output Voltage - can also be used as a battery charger
- All models are short-circuit proof and can be paralleled to increase output current

BATTERY BALANCER IP22



- Designed to overcome the problem of different levels of charge due to internal leakage current in battery banks when connecting batteries in series/parallel combinations thereby extending the life span of batteries
- Equalizes the state of charge of 2 series connected batteries or of several parallel strings of series connected batteries
- If needed, several balancers may be connected in parallel

| Code | BB-12/24 |
|----------------------------------|------------------------------------|
| Input Voltage Range | Up to 18V / Battery, Max 36V total |
| Turn on Level | 27.3V ± 1% |
| Turn off Level | 26.6V ± 1% |
| Alarm trigger level | 200mV |
| Alarm reset level | 140mV |
| Alarm relay | 60V / 1A |
| Reset method | Ext N/O Push Button |
| Overtemp Protection | Yes |
| Current draw when off | 0.7mA |
| Midpoint deviation trigger level | 50mV |
| Dimensions (mm) | 100 x 113 x 47 |

AUTOMATIC TRANSFER SWITCHES IP54

Automatic Transfer Switches



| Code | Power | Voltage | Current | | | Transfer Time | |
|------------|-------|--------------|---------|---------|--------|---------------|----------|
| | | | Input 1 | Input 2 | Output | Closing | Opening |
| VETS-5KVA | 5KVA | 200 - 250VAC | 20A | 20A | 20A | 10 - 20ms | 5 - 10ms |
| VETS-10KVA | 10KVA | 200 - 250VAC | 40A | 40A | 40A | 10 - 20ms | 5 - 10ms |

- Designed to automatically switch between different power sources such as
- Mains supply - Generator / Inverter - Generator / Mains supply - Inverter
- Transfer switch has 2 x inputs and 1 x output
- Input 1 has time delay 10 secs adjustable
- 1 x Aux contact 240VAC/20A

NEW

PWM CHARGE CONTROLLER IP20

BlueSolar Charge Controller

- Liquid Crystal Display • Two 5 Volt USB outputs
- Day/Night timing with option for preset On-time after dusk
- Three stage battery charging (bulk, absorption, float), fully programmable
- Load output with low voltage and manual disconnect (programmable)
- Load output protected against overload and short circuit
- Preprogrammed algorithms for AGM, GEL, Flooded or LiFePO4 batteries (with internal BMS only)



| Code | CC-5-12/24 | CC-10-12/24 | CC-20-12/24 | CC-30-12/24 | CC-10-48 | CC-20-48 | CC-30-48 |
|---|---|-------------|-------------|-------------|----------------|----------|----------|
| Battery Voltage | 12/24V with Automatic Voltage Detection | | | | 48V | | |
| Rated Charge Current | 5A | 10A | 20A | 30A | 10A | 20A | 30A |
| Charge Voltage Absorption (Factory Sett.) | 14.4V / 28.8V | | | | 57.6V | | |
| Charge Voltage Float (Factory Sett.) | 13.7V / 27.4V | | | | 54.8V | | |
| Low Voltage Load Disconnect (Factory Sett.) | 11.2V / 22.4V | | | | 44.8V | | |
| Low Voltage Reconnect (Factory Sett.) | 12.6V / 25.2V | | | | 50.4V | | |
| Maximum Solar Voltage | 28V / 55V | | | | 100V | | |
| Load Output | Manual Control + Low Voltage + Timer | | | | | | |
| Outputs | 5V/2A (Total) USB x 2 Outputs | | | | | | |
| Weight | 0.15kg | | | | 0.3kg | | |
| Dimensions (mm) | 96 x 169 x 36 | | | | 101 x 184 x 47 | | |

SOLAR CHARGE CONTROLLERS

PWM Light

PWM Pro

| Code | BLUESOLAR-5 | BLUESOLAR-10 | BLUESOLAR-20 | BS-PRO-10 | BS-PRO-20 | BS-PRO-30 |
|----------------------|--------------------|---------------------|---------------------|------------------|------------------|------------------|
| Rated charge current | 5A | 10A | 20A | 10A | 20A | 30A |
| Battery Voltage | 12/24V (Auto) | 12/24V (Auto) | 12/24V (Auto) | 12/24V (Auto) | 12/24V (Auto) | 12/24V (Auto) |
| Max. Solar Voltage | 28/55VDC | 28/55VDC | 28/55VDC | 28/55VDC | 28/55VDC | 28/55VDC |
| Dimensions (mm) | 70 x 133 x 34 | 70 x 133 x 34 | 70 x 133 x 34 | 138 x 70 x 37 | 160 x 82 x 48 | 200 x 100 x 57 |
| External Temp Sensor | - | - | - | BS-PRO-TC | BS-PRO-TC | BS-PRO-TC |
| Communication Cable | - | - | - | BS-PRO-IC | BS-PRO-IC | BS-PRO-IC |

Blue Solar MPPT Charge Controllers

| Code | BS-MPPT-75/15 | BS-MPPT-100/15 | BS-MPPT-100/50 | BS-MPPT-150/35 | BS-MPPT-150/70 | BS-MPPT-150/85 |
|-------------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Rated charge current | 15A | 15A | 50A | 35A | 70A | 85A |
| Load Output | 15A | 15A | - | - | - | - |
| Battery Voltage | 12/24V (Auto) | 12/24V (Auto) | 12/24V (Auto) | 12/24/48V (Auto) | 12/24/36/48V (Auto) | 12/24/36/48V (Auto) |
| Nom. PV Power 12/24/48V | 220/440W | 220/440W | 700/1400W | 500/1000/2000W | 1000/2000/4000W | 1200/2400/4850W |
| Max Solar Voc/Isc | 75VDC/15A | 100VDC/15A | 100VDC/60A | 150VDC/40A | 150VDC/50A | 150VDC/50A |
| Comms Protocol | VE.Direct | VE.Direct | VE.Direct | VE.Direct | VE.Can | VE.Can |
| Dimensions (mm) | 100 x 113 x 40 | 100 x 113 x 47 | 130 x 186 x 70 | 130 x 186 x 70 | 350 x 160 x 135 | 350 x 160 x 135 |

SOLAR

NEW

SMART SOLAR CHARGE CONTROLLERS

Smart Solar MPPT Charge Controllers - c/w Built-in Bluetooth

| | | | | | | |
|--------------------------------------|-------------------|---------------------------|---------------------------|--------------------------|--------------------------|--------------------------|
| Smart Phone monitoring & control | | | | | | |
| | Code | SS-MPPT-75/15 | SS-MPPT-100/20 | SS-MPPT-100/50 | SS-MPPT-150/35 | SS-MPPT-150/60-TR |
| Rated charge current | 15A | 20A | 50A | 35A | 60A | 80A |
| Load Output | 15A | 20A | - | - | - | - |
| Battery Voltage | 12/24V(Auto) | 12/24V(Auto) | 12/24V(Auto) | 12/24/48V (Auto) | 12/24/48V (Auto) | 12/24/48V (Auto) |
| Nom. PV Power 12/24/48V | 220/440W | 290/580W | 700/1400W | 500/1000/2000W | 860/1720/3440W | 1200/2400/4900W |
| Max Solar Voc/Isc | 75VDC/15A | 100VDC/20A | 100V/60A | 150V/40A | 150V/50A | 150V/70A |
| Comms Protocol | VE.Direct | VE.Direct | VE.Direct | VE.Direct | VE.Direct | VE.Direct |
| Optional Display | - | - | - | - | SS-MPPT-CD | SS-MPPT-CD |
| Dimensions (mm) | 100 x 113 x 40 | 100 x 113 x 40 | 130 x 186 x 70 | 130 x 186 x 70 | 185 x 250 x 95 | 246 x 295 x 103 |
| Smart Phone monitoring & control | | | | | | |
| | Code | SS-MPPT-150/85-MC4 | SS-MPPT-150/100-TR | SS-MPPT-250/60-TR | SS-MPPT-250/70-TR | SS-MPPT-250/85-TR |
| Rated charge current | 85A | 100A | 60A | 70A | 85A | 100A |
| Battery Voltage | 12/24/48V (Auto) | 12/24/48V (Auto) | 12/24/48V (Auto) | 12/24/48V (Auto) | 12/24/48V (Auto) | 12/24/48V (Auto) |
| Nom. PV Power 12/24/48V | 1200/2400/4900W | 1450/2900/5800W | 860/1720/3440W | 1000/2000/4000W | 1200/2400/4900W | 1450/2900/5800W |
| Max Solar Voc/Isc | 150VDC/70A | 150VDC/70A | 250VDC/35A | 250VDC/35A | 250VDC/70A | 250VDC/70A |
| Comms Protocol | VE. Direct | VE. Direct | VE. Direct | VE. Direct | VE. Direct | VE. Direct |
| Optional Display | SS-MPPT-CD | SS-MPPT-CD | SS-MPPT-CD | SS-MPPT-CD | SS-MPPT-CD | SS-MPPT-CD |
| Dimensions (mm) | 246 x 295 x 103 | 216 x 295 x 103 | 185 x 250 x 95 | 185 x 250 x 95 | 216 x 295 x 103 | 216 x 295 x 103 |
| PV Connection | MC4 | | | Terminal | | |

• Remotely control and monitor the extensive features of your MPPT charger with VE.Direct Communication by using a bluetooth dongle or the built-in bluetooth, and pairing it with your smartphone or other device via VictronConnect. If your installation is connected to the internet Victron Remote Management Portal (VRM) provides access to the full power of your MPPT, anytime, anywhere; both services are free to use.

- Ultra-fast Maximum Power Point Tracking (MPPT)
- Advanced max power point detection in case of partial shading conditions
- Battery Life: intelligent battery management by load shedding
- Automatic battery voltage recognition & flexible 3 stage battery charging with programmable parameters
- Extensive electronic protection & excellent conversion efficiency

NEW

PURE SINE WAVE INVERTERS

Phoenix Inverters - VE Direct

| | | | | | |
|--------------------------------------|---|------------------|------------------|------------------|-------------------|
| Smart Phone monitoring & control | | | | | |
| | Code 12V | GX-12/250 | GX-12/375 | GX-12/500 | GX-12/800 |
| Code 24V | GX-24/250 | GX-24/375 | GX-24/500 | GX-24/800 | GX-24/1200 |
| Code 48V | - | GX-48/375 | GX-48/500 | GX-48/800 | GX-48/1200 |
| Cont. Power (25°C) | 250VA/200W | 375VA/300W | 500VA/400W | 800VA/650W | 1200VA/1000W |
| Peak Power | 400W | 700W | 900W | 1500W | 2200W |
| Input DC Range | 9,2-17V VDC / 18,4 - 34VDC / 36,8 - 620VDC | | | | |
| Output Voltage | 230VAC ± 3% 50Hz ± 0.1% | | | | |
| Dimensions (mm) | 86 x 165 x 260 | 86 x 165 x 260 | 86 x 172 x 275 | 105 x 216 x 305 | 117 x 232 x 327 |
| Features | <ul style="list-style-type: none"> • VE.Direct communication port can be connected to a computer, via USB cable or Apple & Android smartphones, tablets, macbook's and other devices using a bluetooth dongle • Inverter Parameters fully configurable by App • Proven reliability & High start-up power • ECO mode - the inverter will switch to standby when the load decreases below a preset value • See pg 35 for communication accessories • Remote on/off • Output sockets: IEC-320 | | | | |

SOLAR

NEW

PURE SINE WAVE INVERTERS

| | Phoenix Inverters - Compact Range | | Phoenix Inverters 3000 - 5000VA | |
|--------------------|---|-------------------|--|-------------------|
| | | | | |
| Code 12V | GX-12/1600 | GX-12/2000 | GX-12/3000 | - |
| Code 24V | GX-24/1600 | GX-24/2000 | GX-24/3000 | GX-24/5000 |
| Code 48V | - | - | GX-48/3000 | GX-48/5000 |
| Cont. Power (25°C) | 1600VA/1300W | 2000VA/1600W | 3000VA/2500W | 5000VA/4500W |
| Peak power | 3000 | 4000 | 6000W | 10000W |
| Input DC range | 9,5-17V VDC / 19-33VDC / 38-66VDC | | 9.5 - 17VDC / 19 - 33VDC / 33 - 66VDC | |
| Output voltage | 230VAC ±2% 50Hz ± 0,1% | | 230VAC ± 3% 50Hz or 60Hz ± 0,1% | |
| No.Load Consump. | 8W / 10W | 9W / 11W | 20W / 20W / 25W | 25W / 25W |
| Battery connection | Battery Cables | M8 Bolts | 2+2 M8 Bolts | |
| Dimensions (mm) | 375 x 214 x 110 | 375 x 214 x 110 | 362 x 258 x 218 | 444 x 328 x 240 |
| Features | <ul style="list-style-type: none"> • SinusMax - Superior engineering developed for professional duty suitable for a wide range of applications • Computer interface - All models have a RS-485 port - All you need to connect to your PC is our MK2-USB VE.Bus to USB interface. All parameters of the inverters can be customized. See pg 130 for communication accessories | | <ul style="list-style-type: none"> • Extra start-up power well suited to power up difficult loads such as refrigeration compressors, electric motors and similar appliances • Virtually unlimited power thanks to parallel and 3-phase operation capability • Up to 6 units can operate in parallel • Operation in 3-phase configuration is also possible. | |

NEW

INVERTER / CHARGER WITH AUTOMATIC CHANGEVER

| | Multiplus 500 - 1200VA | | |
|---|---|-----------------------|--|
| <ul style="list-style-type: none"> • 1 x AC Input • 1 x AC Output • Programmable Relay | | | |
| Code 12V | MPIC-12/500/20 | MPIC-12/800/35 | MPIC-12/1200/50 |
| Code 24V | MPIC-24/500/10 | MPIC-24/800/16 | MPIC-24/1200/25 |
| Code 48V | MPIC-48/500/6 | MPIC-48/800/9 | MPIC-48/1200/13 |
| Cont Power @ 25° | 500VA/430W | 800VA/700W | 1200VA/1000W |
| Peak Power | 900W | 1600W | 2400W |
| AC Input Range | 185 - 265VAC / 45 - 65Hz | | |
| DC Input Range | 9.5 - 17VDC / 19 - 33VDC / 38 - 66VDC | | |
| Power Control | No | Yes | Yes |
| Power Assist | No | Yes | Yes |
| Transfer Switch | 16A | 16A | 16A |
| AC Output | 230VAC ± 2% / 50Hz ± 0.1% | | |
| Charger 12/24/48V | 20A / 10A / 6A | 35A / 16A / 9A | 50A / 25A / 13A |
| Features | <ul style="list-style-type: none"> • Power Control - The MultiPlus will take account of other AC loads and use whatever is extra for charging, thus preventing the generator or shore supply from being overloaded • Power Assist - MultiPlus will make sure that insufficient shore or generator power is immediately compensated for by power from the battery. | | <ul style="list-style-type: none"> • High start-up power - needed to start high inrush loads • Search Mode - the power consumption of the inverter in no-load operation is decreased by approximately 70% • Remote on / off / charger on - Three pole connector • Communication - VE. Bus <p>See pg 35 for communication accessories</p> |

SOLAR

END OF RANGE

INVERTER / CHARGER WITH AUTOMATIC CHANGEOVER

| | Multiplus - Lithium Ion Battery Compatible | | | | Multiplus II - With Ext. Current Sensor | |
|--|--|-----------------|---------------------|------------------|---|--------------------|
| <ul style="list-style-type: none"> • 1600 - 2000VA: 1 x AC Input, 1 x AC Output • 3000 - 5000VA: 1 x AC Input, 2 x AC Outputs • Programmable Relay • Power Control • Power Assist | | | | | | |
| Code 12V | MPIC-12/1600/70 | MPIC-12/2000/80 | MPIC-12/3000/120 | - | - | - |
| Code 24V | MPIC-24/1600/40 | MPIC-24/2000/50 | MPIC-24/3000/70 | MPIC-24/5000/120 | - | - |
| Code 48V | - | - | MPIC-48/3000/35 | MPIC-48/5000/70 | MPIC-II-48/3000/35 | MPIC-II-48/5000/70 |
| Cont Power @ 25° | 1600VA/1300W | 2000VA/1600W | 3000VA/2400W | 5000VA/4000W | 3000VA | 5000VA |
| Peak Power | 3000W | 4000W | 6000W | 10000W | 5500W | 9000W |
| AC Input Range | 187 - 265VAC / 45 - 65Hz | | | | 187-265 VAC/45 -65Hz | |
| DC Input Range | 9.5 - 17VDC / 19 - 33VDC / 38 - 66VDC | | | | 38-66VDC | |
| Transfer Switch | 16A | 30A | 12/24V=16A; 48V=50A | 100A | 32A | 50A |
| AC Output | 230VAC ± 2% / 50Hz ± 0,1% | | | | 230VAC ± 2% / 50Hz ±0.1% | |
| 2nd AC Output | No | No | 16A | 50A | 32A | |
| Charger 12/24/48V | 70A / 40A / | 80A / 50A / - | 120A / 70A / 35A | - / 120A / 70A | - / - / 35A | - / - / 70A |
| External CT | - | - | - | - | MPIC-II-CT100 | |

Quattro - Lithium Ion Battery Compatible

| | | | | | |
|---|---------------------------------------|-------------------|-----------------|------------------|------------------|
| <ul style="list-style-type: none"> • 2 x AC Inputs • 2 x AC Outputs • Programmable Relay • Power Assist | | | | | |
| Code 12V | QIC-12/3000/120 | QIC-12/5000/200 | - | - | - |
| Code 24V | QIC-24/3000/70 | QIC-24/5000/120 | QIC-24/8000/200 | - | - |
| Code 48V | - | QIC-48/5000/70 | QIC-48/8000/110 | QIC-48/10000/140 | QIC-48/15000/200 |
| Cont Power @ 25° | 3000VA/2400W | 5000VA/4000W | 8000VA/6500W | 10000VA/8000W | 15000VA/12000W |
| Peak Power | 6000W | 10000W | 16000W | 20000W | 25000W |
| AC Input Range | 187 - 265VAC / 45 - 65Hz | | | | |
| DC Input Range | 9.5 - 17VDC / 19 - 33VDC / 38 - 66VDC | | | | |
| AC Output | 230VAC ± 2% / 50Hz ± 1% | | | | |
| Charger 12/24/48V | 120A / 70A / - | 220A / 120A / 70A | - / 200A / 110A | - / - / 140A | - / - / 200A |
| Max Feedthrough Current | 2 x 50A | 2 x 100A | 2 x 100A | 2 x 100A | 2 x 100A |
| Programmable Relay | 3 | 3 | 3 | 3 | 3 |

Features

- Two AC Outputs (3000VA - 5000VA) - The main output has no break functionality. The MultiPlus takes over the supply to the connected loads in the event of a grid failure or when shore/generator power is disconnected. The second output is live only when AC is available on the input of the MultiPlus.
- Virtually unlimited power thanks to parallel operation. Up to 6 units can operate in parallel to achieve higher power output.
- Three phase capability - Three units of the same model can be configured for three phase output. up to 6 sets of three units can be parallel connected
- Power Control - a maximum generator or shore current can be set. The MultiPlus will then take account of other AC loads and use whatever is extra for charging
- Power Assist - Insufficient shore or generator power is immediately compensated for by power from the battery
- Solar energy - Can be used in off grid as well as grid

connected PV and other alternative energy systems.

- System configuration:
 - Stand-alone application settings can be done in a matter of minutes with a DIP switch setting procedure.
 - Parallel and three phase applications can be configured with VE.Bus Quick Configure and VE.Bus System Configurator software.
 - Off grid, grid interactive and self-consumption applications, involving grid-tie inverters and/or MPPT Solar Chargers can be configured with Assistants (dedicated software for specific applications).
- Onsite & Remote Monitoring & Control
- Remote Configuration can be accomplished using a colour control panel (**CCGX** or **VENUS GX**)
- Communication - VE. Bus (See pg 35 for communication accessories)
- MultiPlus II has all the features of MultiPlus plus an external current sensor which enhances power control and power assist. It also includes built-in anti-islanding functionality.

ALL-IN-ONE SOLAR POWER SOLUTION

Easy Solar - Inverter / Charger / MPPT Charge Controller

| | | | | | | |
|---------------------------------------|-------------------------|------------------------|-------------------------|------------------------|------------------------|---------------------------|
| | | | | | | |
| Code 12V | ESIC-12/1600/70 | - | - | - | - | - |
| Code 24V | - | ESIC-24/1600/40 | ESIC-24/3000-70 | - | - | - |
| Code 48V | - | - | - | ESIC-48/3000-35 | ESIC-48/5000-70 | ESIC-II-48/3000-35 |
| Transfer Switch | 16A | 16A | 50A | 50A | 100A | 32A |
| Controller Type | CCGX | | | | | Venus |
| Inverter | | | | | | |
| Input Voltage DC | 9.5 - 17V | 19 - 33V | 19 - 33V | 38 - 63V | 38 - 66V | 38 - 66V |
| Output Voltage | 230VAC ± 2% 50Hz ± 0.1% | | 230VAC ± 2% 50Hz ± 0.1% | | | |
| Cont. Power (25°C) | 1600VA / 1300W | | 3000VA / 2500W | | 5000VA / 4000W | |
| Peak Power | 3000W | | 6000W | | 10000W | |
| Mains Charger | | | | | | |
| Input Voltage AC | 187 - 265V / 45 - 65Hz | | 187 - 265V / 45 - 65Hz | | | |
| Charger Current | 70A | 40A | 70A | 35A | 70A | 35A |
| Programmable Relay | Yes | Yes | Yes | Yes | Yes | Yes |
| Solar Charge Controller - MPPT | | | | | | |
| Max PV VOC | 100V | 100V | 150V | 150V | 150V | 250V |
| Max Output Current | 50A | 50A | 70A | 70A | 100A | 7A |
| Max PV Power | 700W | 1400W | 2000W | 4000W | 5800W | 4000W |
| External CT | - | | | | | MPIC-II-CT100 |

- The all-in-one solar power solution - a MPPT solar charge controller, an inverter/charger & AC distribution in one enclosure
- **GX** Controller to be ordered separately for 1600VA models
- 3000VA & 5000VA contains GX Controller - see below for comparison

- AC distribution - RCD (30mA) and AC outputs protected by 2x10A and 2x(1600VA) or 3x(3000/5000VA) 16A circuit breakers. One 16A output is controlled by the AC input: it will switch on only when AC is available.
- Unique solar application software - Several software programs (Assistants) are available to configure the system for various grid interactive or stand-alone applications.



COMMUNICATION & MONITORING ACCESSORIES



CERBO GX



CCGX



VENUS GX



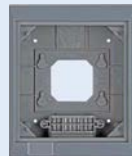
GX TOUCH 50



GX-DIN35



VWB-CCGX/BMV



VWB-CCGX

Intuitive control and monitoring for all Victron products connected to the GX device. Information can also be forwarded to the free remote monitoring website. Visit www.vrm.victronenergy.com to try free demos.

Remote Monitoring & Control Gateways

| Code | CERBO GX | CCGX | VENUS GX |
|----------------|---|--|----------------------------------|
| Supply Voltage | | 8 -70VDC | |
| Display | No (GX Touch 50) | Yes | No |
| Inputs | 4 x Di, 4 x Temp Sense, 4 x Level Inputs | None | 2 x Tank Level 2 x Temp Sense |
| Outputs | 2 x Changeover Programmable | 1 x No 3A (230VAC/30VDC) | 1 x No 7A (230VAC/30VDC) |
| Comm Ports | 3 x VE.Direct Ports, 2 x VE.Bus, 1 x VE.CAN, 2 x USB & 1 power only, 1 x Ethernet | 2 x VE.Direct, 2 x VE.Bus RJ45, 2 x VE.CAN RJ45, 2 x USB, 1 x Ethernet | |
| Other Comms | Bluetooth, BMS-Can port, SDHC max. of 32GB | Modbus + JSON | |
| WIFI | Yes | No | Yes |
| Dimensions | 78 x 154 x 48mm | 130 x 120 x 28mm | 45 x 143 x 96mm |

Accessories

| Code | Description |
|--------------|---|
| GX TOUCH 50 | Touch Display for Cerbo GX |
| GX-DIN35 | Din Rail Mounting Adapter for Cerbo GX |
| VWB-CCGX | Wall Mount Enclosure for CCGX |
| VWB-CCGX/BMV | Wall Mount Enclosure for CCGX & BMV Battery Monitor |

Communication Accessories

| Code | Description |
|--------------|--|
| CAN-USB | VE.Can to USB Interface for computer connection |
| MK2-USB | VE.Bus to USB Interface for computer connection |
| MK3-USB | VE.Bus to USB Interface for computer connection |
| VED-USB | VE.Direct to USB Interface for computer connection |
| VED-CABLE | VE.Direct cable to connect VE.Direct devices to each other |
| VED-BT | VE.Direct to Bluetooth Dongle |
| GX-GSM | GSM 2G and 3G Modem |
| GSM900200100 | Active GPS Antenna for GX-GSM |
| GSM900100100 | Outdoor GSM Antenna for GX-GSM |
| ET112 | 100A Direct energy meter for Victron ESS |



CAN-USB

MK3-USB

VED-USB



VED-CABLE

VED-BT

GX-GSM



GSM900200100

GSM900100100

ET112

GRID-TIE HOME SOLAR SETS



Home Based Grid Tie Solar System

Solar Frontier home based grid tie solar systems are designed with precisely matching components for maximum output and efficiency using the latest CIS thin film technology solar panels and highly efficient Solar Frontier inverters. Grid tie solar systems are designed with the aim of working in conjunction with your utility supply to offset your usage from the utility by making use of solar power before utility power and feeding excess power back into your local grid.



| Code | Capacity | Inverters Qty | Module Qty | DC Cable | Connectors | Modules in Series | Roof Area Required |
|--------------|----------|---------------|------------|----------|---------------------|-------------------|--------------------|
| SOLARSET 3.0 | 3.0kWp | 1 x 3kW | 18 | 50m | 5 male / 5 female | 6 | 23.4m ² |
| SOLARSET 4.6 | 4.6kWp | 2 x 3kW | 28 | 50m | 10 male / 10 female | 7 | 36.4m ² |
| SOLARSET 5.9 | 5.9kWp | 2 x 3kW | 36 | 50m | 10 male / 10 female | 6 | 46.8m ² |

- Mounting brackets not included - for Mounting Systems see page 111 - 112
- Compatible electricity meter required

- South African prepaid meters are not compatible
- Web based monitoring available on requested

SMA ON-GRID INVERTERS IP65

Sunny Boy - Single Phase PV String Inverters

With a broad input voltage range from 80V to 600V, flexibility with a variety of PV module types and makes, and its low weight for easy installation, the Sunny Boy is the perfect for Inverter upgrades and new PV systems.

The Sunny Boy 1.5 / 2.5 is the perfect inverter for customers with small PV systems. The new Sunny Boy 3.0-5.0 is more than just a PV inverter with the integrated SMA Smart Connected service. This automatic inverter monitoring by SMA analyzes operation, reports irregularities and thus minimizes downtime.

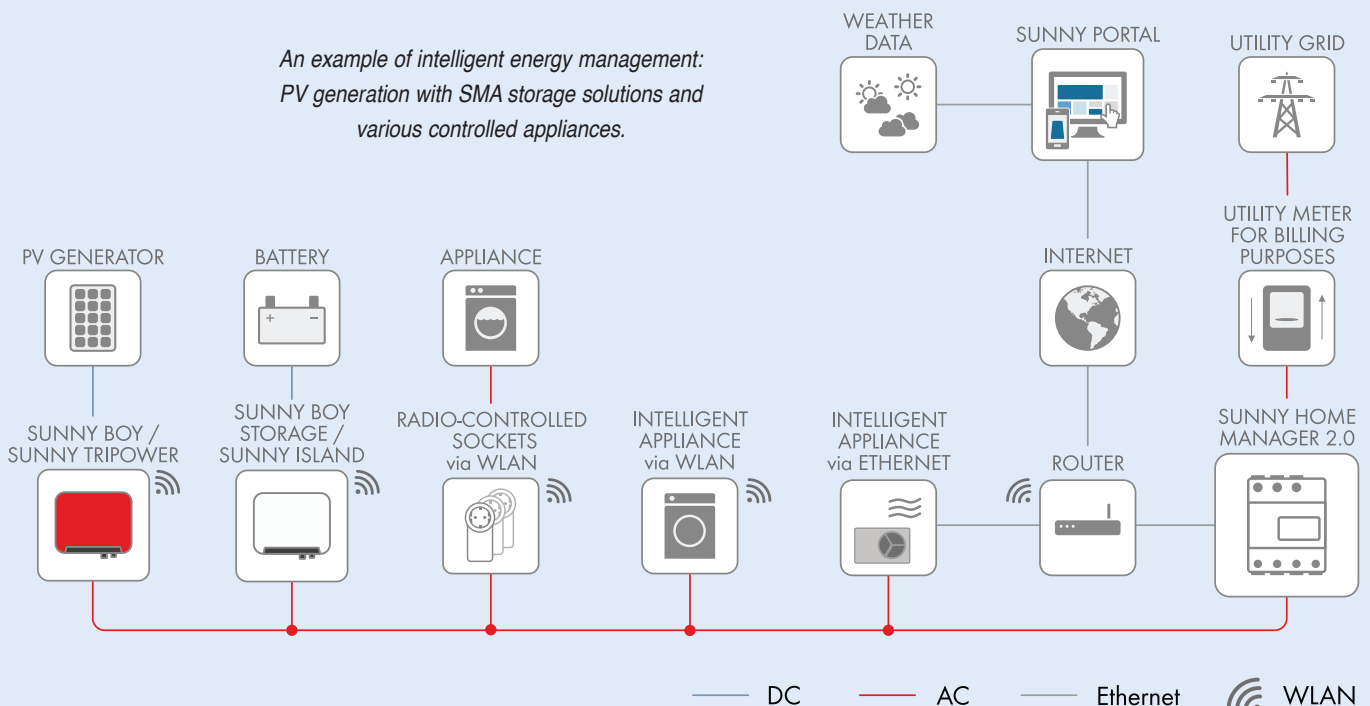
Standard warranty: 5 years (can be extended)



| Code | SB1.5-1VL-40 | SB2.5-1VL-40 | SB3.0-1AV-40 | SB3.6-1AV-40 | SB4.0-1AV-40 | SB5.0-1AV-40 |
|----------------------------------|--------------------------|--------------|--------------------------|--------------|--------------|--------------|
| DC Input | | | | | | |
| Maximum PV Array Power | 3000Wp | 5000Wp | 5500Wp | 5500Wp | 7500Wp | 7500Wp |
| Maximum / Rated Input Voltage | 600V / 360V | | 600V / 365V | | | |
| MPP Voltage Range | 160-500V | 260-500V | 110-500V | 130-500V | 140-500V | 175-500V |
| Maximum Input Current per String | 10A | | 15A | | | |
| MPP Inputs / Strings / MPP Input | 1/1 | | 2/2 | | | |
| AC Output | | | | | | |
| Rated Power (@230V/50 Hz PF=1) | 1500W | 2500W | 3000W | 3680W | 4000W | 5000W |
| Maximum Apparent AC Power | 1500VA | 2500VA | 3000VA | 3680VA | 4000VA | 5000VA |
| Nominal AC Voltage | 230V (180-280VAC) / 50Hz | | 230V (180-280VAC) / 50Hz | | | |
| Maximum Output Current | 7A | 11A | 16A | 16A | 22A | 22A |

- Protection: Ground fault monitoring / Grid Monitoring / DC reverse polarity protection / AC short circuit current capability / All-pole-sensitive residual-current monitoring unit
- Direct connection to Sunny Portal and Sunny Places
- Fast commissioning and Local monitoring by smartphone/tablet
- Shade management OptiTrac Global Peak
- Integrated WLAN and Speedwire interface with Webconnect functionality
- Storage system, intelligent energy management and smart-module technology can be added at any time
- Dynamic feed-in control (via Sunny Home manager or SMA Energy Meter)
- SUNCLIX DC plug-in system for easy installation
- DC-side disconnection point included
- Dimensions (W x H x D): 460 x 357 x 122mm
- Weight: 9.2kg
- Max. Efficiency: 97.2 %

*An example of intelligent energy management:
PV generation with SMA storage solutions and
various controlled appliances.*



SMA ON-GRID INVERTERS IP65

Sunny Tripower 6000TL-12000TL

The Sunny Tripower is the optimum product solution – for applications ranging from use in your own home and larger PV rooftop systems to implementation of smaller-scale PV farms. Highly flexible with its proven Optiflex technology and asymmetrical multistring, it delivers maximum yields with a top efficiency rating and OptiTrac Global Peak. In addition to SMA and Sunspec Modbus communication, it also comes standard with a direct Sunny Portal connection via SMA Webconnect. Other standard features include integrated grid management functions, reactive power supply and suitability for operation with a 30mA RCD. Standard Warranty: 5 Years (can be extended).



| Code | STP6000TL-20 | STP8000TL-20 | STP10000TL-20 | STP12000TL-20 |
|---|--|--------------|---------------|---------------|
| DC Input | | | | |
| Maximum PV Array Power | 9000Wp | 13500Wp | 13500Wp | 18000Wp |
| Maximum / Rated Input Voltage | 1000V / 580V | 1000V / 580V | 1000V / 580V | 1000V / 580V |
| MPP Voltage Range | 295-800V | 330-800V | 370-800V | 440-800V |
| Maximum Input Current per Input A/B | 11A / 10A | 15A / 10A | 18A / 10A | 18A / 10A |
| Maximum Short-Circuit Current Input A/B | 17A / 15A | 25A / 15A | 25A / 15A | 25A / 15A |
| MPP Inputs / Strings / MPP Input | 2 / A:2,B:2 | 2 / A:2,B:2 | 2 / A:2,B:2 | 2 / A:2,B:2 |
| AC Output | | | | |
| Rated Power (@230V/50 Hz Pf=1) | 6000W | 8000W | 10000W | 12000W |
| Maximum Apparent AC Power | 6000VA | 8000VA | 10000VA | 12000VA |
| Nominal AC Voltage | 230/400VAC (160-280V L-N) / 50 Hz (-5 Hz to +5 Hz) | | | |
| Maximum Output Current | 8.7A | 11.6A | 14.5A | 17.4A |

- Protection: Ground fault monitoring / Grid Monitoring / DC reverse polarity protection / AC short circuit current capability / All-pole-sensitive residual-current monitoring unit
- Active temperature management with OptiCool
- Module-tailored system design with Optiflex
- SMA Bluetooth® and Speedwire/Webconnect communication interface
- Sunny Portal communication
- Simple country configuration

- Multifunction relay comes standard
- SUNCLIX DC plug-in system
- Integrated ESS(Electronic Solar Switch) - DC Disconnect device
- Easy wall mounting
- Dimensions (W x H x D): 470 x 730 x 240mm
- Weight: 37kg
- Max. Efficiency: 98%

Sunny Tripower 15000TL-25000TL

The Sunny Tripower is the ideal inverter for large-scale commercial and industrial plants. Not only does it deliver extraordinary high yields with an efficiency of 98.4%, but it also offers enormous design flexibility and compatibility with many PV modules thanks to its multistring capabilities and wide input voltage range. The Sunny Tripower comes with cutting-edge grid management functions such as Integrated Plant Control, which allows the inverter to regulate reactive power at the point of common coupling. Separate controllers are no longer needed, lowering system costs. Another new feature—Reactive power provision on demand (Q on Demand 24/7). Standard Warranty: 5 Years (can be extended).



| Code | STP15000TL-30 | STP20000TL-30 | STP25000TL-30 |
|-------------------------------------|--|---------------|---------------|
| DC Input | | | |
| Maximum PV Array Power | 27000Wp | 36000Wp | 45000Wp |
| Maximum / Rated Input Voltage | 1000V / 600V | 1000V / 600V | 1000V / 600V |
| MPP Voltage Range | 240-800V | 320-800V | 390-800V |
| Maximum Input Current per Input A/B | 33A / 33A | 33A / 33A | 33A / 33A |
| MPP Inputs / Strings / MPP Input | 2 / A:2,B:2 | 2 / A:2,B:2 | 2 / A:2,B:2 |
| AC Output | | | |
| Rated Power (@230V/50 Hz PF=1) | 15000W | 20000W | 25000W |
| Maximum Apparent AC Power | 15000VA | 20000VA | 25000VA |
| Nominal AC Voltage | 230/400VAC (180-280V L-N) / 50Hz (44-55Hz) | | |
| Maximum / Rated Output Current | 29A / 21.7A | 29A / 29A | 36.2A / 36.2A |

- Protection: Ground fault monitoring / grid monitoring / DC reverse polarity protection / AC short circuit current capability / All-pole-sensitive residual-current monitoring unit. **Note:** Each inverter must be equipped with **DC-SPD-KIT3-10** Surge protection module to maintain warranty. (To be ordered separately)
- Active temperature management with OptiCool
- Speedwire/Webconnect communication interface
- OptiTrac Global IPeak and Multistring capability for optimum system design

- Sunny Portal communication
- Simple country configuration
- SUNCLIX DC plug-in system
- Off-Grid capable / SMA Fuel Save Controller compatible
- Integrated DC Disconnect device
- Data interface: SMA Modbus / SunSpec Modbus
- Dimensions (W x H x D): 661 x 682 x 264mm
- Weight: 61kg | Max. efficiency: 98.4 %

SMA ON-GRID INVERTERS IP65

Sunny Tripower Core1

The Sunny Tripower CORE1 is the world's first free-standing string inverter for decentralized rooftop and ground-based PV systems as well as covered parking spaces. SMA engineers developed an inverter that combines a unique design with an innovative installation method to significantly reduce installation time. The Sunny Tripower CORE1 generates widespread savings in logistics, labor, materials and services.

Standard warranty: 5 years (can be extended)

| Code | STP50-40 |
|---|--|
| DC Input | |
| Maximum PV Array Power | 75000Wp STC |
| Maximum Rated Input Voltage | 1000V / 670V |
| MPP Voltage Range | 500-800V |
| Maximum Input Current per Input A/B | 120A / 20A |
| Maximum Short-Circuit Current Input A/B | 30A |
| MPP Inputs / Strings/MPP Input | 6 / 2 |
| AC Output | |
| Rated Power (@230V/50 Hz Pf=1) | 50000W |
| Maximum Apparent Ac Power | 50000VA |
| Nominal AC Voltage | 230/400VAC (202-305V L-N) / 50 Hz (44-55Hz) |
| Maximum Output Current | 72.5A / 72.5A |



- Protection: Ground fault monitoring / grid monitoring / DC reverse polarity protection / AC short circuit current capability / All-pole-sensitive residual-current monitoring unit.
- **Note:** Each inverter must be equipped with **DC-SPD-KIT4-10** and **AC-SPD-KIT1-10** Surge protection modules to maintain warranty. (To be ordered separately)
- Active temperature management with OptiCool
- Speedwire/Webconnect communication interface (2xRJ45 and WLAN)
- Multi-Function relay and 2x Expansion Module Slots included
- Sunny Portal communication
- OptiTrac Global Peak , Integrated Plant Control, Q (reactive power) on Demand 24/7 included.
- SUNCLIX DC plug-in system
- Off-Grid capable / SMA Fuel Save Controller compatible
- Integrated DC Disconnect device
- Data interface: SMA Modbus / SunSpec Modbus
- Dimensions (W x H x D): 621 x 733 x 569mm
- Weight: 84kg
- Max. efficiency: 98.1%

SMA MONITORING & CONTROL IP65

TS4-R Module Technology - IP65

The **TS4-R** module technology is a cost-effective system that fits into any PV module design. **TS4-R** ensures maximum energy yields and configuration flexibility; only fit the modules affected by partial shading or output loss. The **TS4-R** platform offers integrated power electronics with various functions. With the **Monitoring function**, the entire PV system can be monitored at the module level. The **Shutdown function** enables the PVsystem to be switched off at the module level. Using the **Optimization function**, the power of the PV system can be boosted even in partial shading or with different module configurations.

The **TS4-R** units communicate wirelessly and so are easy to install. Supplied complete with 1m leads and MC4 connectors. Warranty: 25 years



| Code | TS4-R-M | TS4-R-S | TS4-R-O |
|------------------------|---------|---------|---------|
| Nominal DC Input Power | 375W | 475W | 475W |
| Maximum PV VOC @ STC | 52V | 75V | 75V |
| Maximum Current | | 12A | |
| Maximum system voltage | | 1000V | |
| Monitoring Function* | Yes | Yes | Yes |
| Shutdown Function* | No | Yes | Yes |
| Optimization Function | No | No | Yes |

*Requires Cloud Connect Advanced and Gateway accessories

Accessories

| Code | Description |
|-----------------|---|
| SMA-CCA | Cloud Connect Advanced communication unit to connect TS4-R unit to Sunny Portal via the SMA-GTWY . Including WLAN and Ethernet communication for connection to internet and RS485 communication for connection to SMA-GTWY |
| SMA-GTWY | Gateway to enable wireless communication for up to 120 TS4-R components. 15m range. RS485 wired connection to SMA-CCA |

SMA BATTERY INVERTERS IP54

Sunny Island - Battery Inverter

The Sunny Island battery inverter supports a wide range of on- and off-grid installations. Thanks to its integrated web interface and standard interfaces, WLAN and Ethernet, the Sunny Island 4.4M/6.0H/8.0H can be easily configured and monitored via smartphone or tablet. And being a core element in the SMA Flexible Storage System, the Sunny Island temporarily stores self-generated power thus making it possible to use solar power around-the-clock.

Its high protection class, wide temperature range and exceptional overload capacity always provide the kind of reliability needed for off-grid use.

Standard warranty: 5 years or 10 years when registered with SMA



| Code | SI4.4M-12 | SI6.0H-12 | SI8.0H-12 |
|---|--|------------------|------------------|
| On Grid/Generator Operation | | | |
| Rated Grid Voltage / AC Voltage Range | 230VAC (172.5-264.5V) / 50Hz (40-70Hz) | | |
| Maximum AC Current for Self-consumption | 14.5A | 20A | 26A |
| Maximum AC Power for Self-consumption | 3.3kVA | 4.6kVA | 6kVA |
| Maximum AC Feed through Current | 50A | | |
| Maximum AC Feed through Power | 11500W | | |
| Stand-alone or Emergency Operation | | | |
| Rated Grid Voltage / AC Voltage Range | 230VAC (202-253V) / 50Hz (45-65Hz) | | |
| Rated Power (@ Unom, fnom/25°C/cosφ=1) | 3300W | 4600W | 6000W |
| AC Power at 25°C for 30 min / 5 min / 3 sec | 4400/4600/5500W | 6000/6800/11000W | 8000/9100/11000W |
| AC Power at 45°C Continuously | 3000W | 3700W | 5430W |
| Rated / Maximum Output Current (peak) | 14.5A / 60A | 20A / 120A | 26A / 120A |
| Battery DC Input | | | |
| Rated Input Voltage (DC Voltage Range) | 48 VDC (41-63V) | | |
| Rated DC Charging / Discharging Current | 63A/75A | 90A/103A | 115A/130A |
| Battery Type (Capacity Range) | Li-Ion (50-10000Ah), Lead-Acid (100-10000Ah) | | |

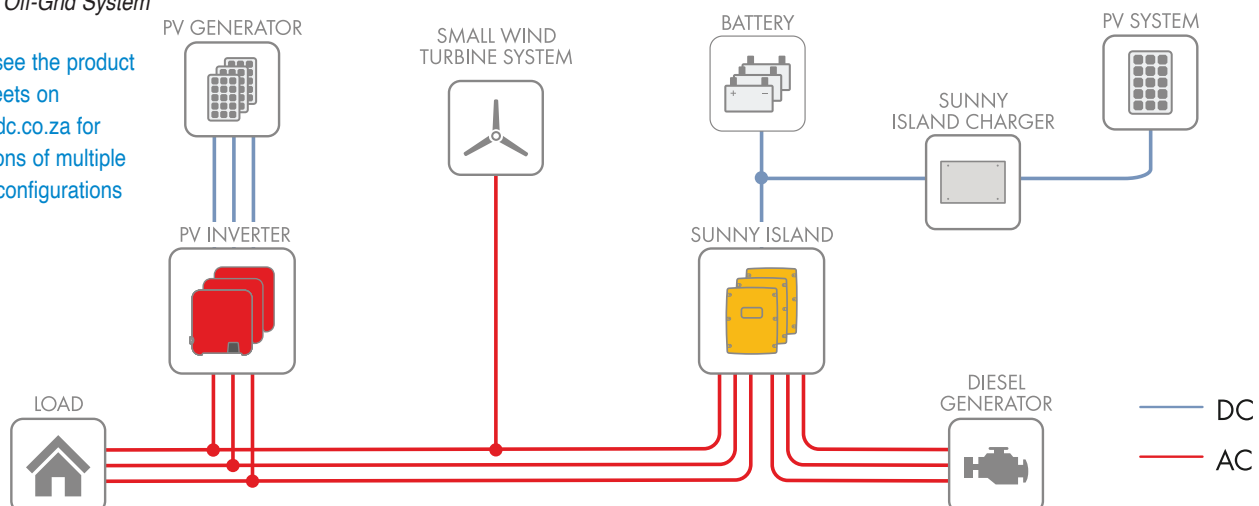
- Protection: AC short-circuit / AC overload / Over temperature / Battery Deep Discharge
- Charge control: Intelligent 3-stage charging
- Multifunction relay: x2
- Integrated WLAN and Speedwire interface with Webconnect functionality
- Optimized data logging using Micro SD card (to be ordered separately)
- SI-SYSCAN communication integrated in 6.0 and 8.0 for parallel and Multiclustler (see page 135) applications
- Particularly high overload capability
- Ideal for retrofits or modular expansions of single-phase and 3-phase systems
- Display via smartphone, tablet, laptop using integrated WLAN
- Automatic rotating magnetic field detection / generator support for off-grid applications
- Dimensions (W x H x D): 467 x 612 x 242mm
- Weight: 44kg (4.4) / 63kg (6.0/8.0)
- Maximum Efficiency: 95.5%

Accessories

| Code | Description |
|------------|---|
| SMA-SI-BTS | Battery temperature sensor for Sunny Island |

3 Phase Off-Grid System

Please see the product data sheets on www.acdc.co.za for illustrations of multiple system configurations



SMA BATTERY INVERTERS

Multicluster Boxes for Sunny Island Inverters

With the SMA Multicluster-Boxes for the Sunny Island battery inverter, both off-grid systems and grid-connected PV systems can be configured easily and cost-efficiently. In rural regions without grid access, high-performance off-grid and hybrid systems with 2 to 12 three-phase clusters, each consisting of 3 Sunny Island inverters with up to 360 kW of connectable PV power, can be implemented. For systems connected to the utility grid, self-consumption and battery backup applications with up to 138 kilowatt-peaks can be achieved. To simplify installation, all Multicluster-Boxes are completely wired at the factory and have a main connector for generators, the load distribution and PV or wind turbine systems.



| Code | MC-BOX-6.3-11 | MC-BOX-12.3-20 | MC-BOX-36.3-11 |
|----------------------------------|--|---------------------|---------------------|
| Load Connection | | | |
| Rated Voltage / AC Voltage Range | 230VAC (172.5 - 250V) / 400VAC (300 - 433V) / 50Hz (40 - 70Hz) | | |
| Rated AC Current | 3 x 80 A (AC1) | 3 x 200 A (AC1) | 3 x 435 A (AC1) |
| Rated AC Power | 55kW | 138kW | 300kW |
| Protection | LV/HRC size 00 | LV/HRC size 1 | LV/HRC size 3 |
| Sunny Island Connections | | | |
| Maximum number of devices | 6 | 12 | 36 |
| Protection | 6 x MCB 40A | 12 x MCB 40A | 36 x MCB 40A |
| Generator Connection | | | |
| Rated AC Current | 3 x 80 A | 3 x 200 A | 3 x 435 A |
| Rated AC Power | 55 kW | 138 kW | 300 kW |
| Protection | LV/HRC size 00 | LV/HRC size 1 | LV/HRC size 3 |
| PV System Connection | | | |
| Rated AC Current | 3 x 80 A | 3 x 200 A | 3 x 435 A |
| Rated PV Power | 55 kW | 138 kW | 360 kW |
| General Data | | | |
| Permitted Grid Configuration | TN-S | TN-S / TN-C-S / TT | TN-S |
| Dimensions (W x H x D) | 760 x 760 x 210mm | 1200 x 1600 x 435mm | 1200 x 2000 x 800mm |
| Weight | 55kg | 200kg | 400kg |
| Mounting Type | Wall mount | Base mount | Base mount |
| Degree of Protection | IP65 | IP55 | IP54 |

- Capacities from 20 kW to 300 kW For stand-alone grids
- **MC-BOX-12.3-20** can also be grid-connected for optimum self-consumption and battery backup
- Compatible devices: **SI6.0H-12** / **SI8.0H-12**
- Integrated load-shedding contactor
- Automatic bypass for the generator
- Active anti-islanding
- Reverse current monitoring
- 5-year SMA Warranty

SMA MONITORING & CONTROL

Sunny Home Manager 2.0

The Sunny Home Manager 2.0 is SMA's intelligent energy manager and enables the most efficient use of solar energy in the home. It optimizes PV self-consumption and significantly reduces electricity costs. To do this, it measures the power of PV generation, purchased electricity as well as grid feed-in, and gives an overview of all relevant energy flows in the household. By means of local PV generation forecasts and the measured household consumption profile, the self-learning device prompts the user with energy-related action recommendations. Operation of the controlled appliances is coordinated in a way to optimize the use of self-generated solar energy.



See system example on pg 131

| Code | Description |
|-------|--|
| HM-20 | Energy manager with integrated measuring device for use in SMA systems for measurement of energy consumption, feed-in limitation & control of loads - Wired & wireless communication |

- Consumption analysis of individual loads
- Quick plug-and-play installation
- Energy balance and load data shown in interactive diagrams
- PV system monitoring via Sunny Portal and Sunny Places
- Overview of all relevant appliances, PV generation and battery systems
- Integrated weather and PV forecast data
- Appliance connection via standard protocols and compatible radio controlled sockets
- Optimized battery charging in SMA storage systems
- Total number of devices in the system: up to 24 of which up to 12 can be included in active energy management
- Nominal voltage: 230/400VAC 50Hz
- Nominal / Limiting current per line conductor: 5A/63A (>63A connected via CT's)
- Communication: Ethernet 10/100Mbit/s (RJ45) / WLAN / EEBUS, SEMP protocol for communication with smart devices
- Din-Rail Mounting
- Measurement accuracy, measuring cycle: 1%, 1000 ms

SMA MONITORING & CONTROL

SMA Energy Meter

A high-performance measurement solution for intelligent energy management in PV systems with SMA devices. The SMA Energy Meter calculates phase-exact and balanced electrical measured values and communicates these via Ethernet in the local network. In this way, all data on grid feed-in and purchased electricity as well as PV generation by other PV inverters can be communicated to SMA systems.



| Code | Description |
|------------------|--|
| EMETER-20 | Energy meter for use in SMA systems for measurement of energy consumption and feed-in limitation - Wired communication |

- Quick plug-and-play installation
- Graphic visualization of current measured values in Sunny Portal and local web UI
- Flexible use in applications > 63A thanks to external current transformers
- Fast three-phase or single-phase, bidirectional reading for effective energy management
- Space-saving, DIN-rail mounting in household distribution board
- Compatible with Sunny Home Manager, Sunny Boy, Sunny Island & SMA Cluster Controller
- Nominal voltage: 230/400VAC 50Hz
- Nominal / Limiting current per line conductor: 5A/63A (>63A connected via CT's)
- Communication: Ethernet 10/100Mbit/s (RJ45)
- Measurement accuracy, measuring cycle: 1%, 1000 ms

SMA Data Manager M - Up to 25 Devices

The Data Manager M optimizes communication, monitoring and control of PV systems with up to 25 SMA devices. With the new ennexOS platform, it is possible to change system and inverter parameters via Sunny Portal. Thanks to its modular design and systematic support of industrial standards such as Modbus/TCP, systems can be expanded to include additional components such as I/O systems or energy meters, from either SMA or other suppliers.



| Code | Description |
|----------------|---|
| EDMM-10 | Communication, monitoring and control device for up to 25 SMA devices in decentralised PV systems |

- Quick and intuitive commissioning of all local components & Sunny Portal
- Simple integration of I/O systems and energy meters
- Supply voltage: 10-30VDC
- Network (LAN): 2 x RJ45, switched, 10BaseT/100BaseT
- Complies with international grid integration requirements
- Detailed analytics, alert system and reporting
- Din rail mounted: 9 modules wide
- USB: 1 x USB 2.0, Type A

SMA Cluster Controller - Up to 75 Devices

Combined with highly efficient SMA inverters, the SMA Cluster Controller is the central communication unit for system monitoring, recording data and controlling large-scale PV plants equipped with up to SMA 75 devices.

Through a variety of analog and digital in and outputs as well as fast data exchange via an Ethernet-based data interface (e.g., Modbus TCP), a wide range of applications can be realized, from feed-in management to sensor technology integration.



| Code | Description |
|-----------------|---|
| CLCON-10 | Central communication unit for system monitoring, recording data and controlling large-scale PV plants with up to 75 SMA devices. c/w LCD display |

- Standardized Modbus interface for use with superior communication devices
- Analog and digital interfaces for active and reactive power setpoints
- Supply voltage: 10-30VDC
- Din-rail mounting
- Communication protocols: Speedwire, Fast Ethernet, HTTP, FTP, Modbus TCP/UDP, SMTP, Sunny Portal
- Network (LAN): 2 x RJ45, switched, 10BaseT/100BaseTX
- Temperature measurement: 2xPT100/PT1000 (-40 to 85°C)
- Complies with national and international requirements for grid integration
- Remote monitoring and maintenance via the integrated user interface and Sunny Portal
- Dimensions (W x H x D): 275 x 133 x 71mm
- Data storage: 2 USB 2.0 high-speed ports, type A
- Digital inputs: 8
- Analog inputs: 3 x 0 - 20mA / 1 x 0-10V
- Digital outputs: 3 x relay outputs (48VDC/30W)
- Analog outputs: 2x 4-20mA

Accessories

| Code | Description |
|------------------|--|
| CLCON-PSU | SMA Din-rail mounted Power Supply 24VDC / 2.5A |

GRID-TIED 3 PHASE HYBRID INVERTERS

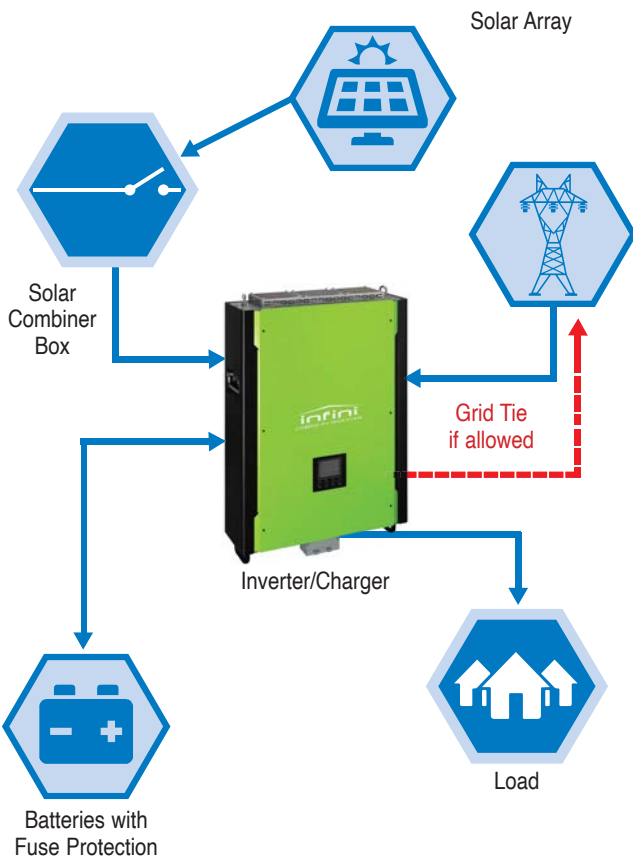


Infiniti - 3 Phase Inverter

Code **INFINI-10K-48**

- Combines Grid-tied Inverter, MPPT Solar Charger, AC Battery Charger, UPS
- Programmable supply priority for Grid, PV, Battery
- Programmable battery charging current
- Programmable operating mode: Grid-Tie, Off Grid, Grid-Tie with Backup
- Multiple comms options: USB, RS232, ModBus and SNMP
- Real time status display and control via software
- Built in timer for various modes of ON/OFF operation
- True 3 phase output (230VAC P - N, 400VAC P - P)
- Mains or Generator power
- Short Circuit Protection
- Overload / Over temp protection
- Rated Power: 10kW

| Hybrid Operation | | Off Grid Operation | |
|-------------------------------|---|-------------------------------|---------------------------|
| PV Input | | AC Input | |
| Nominal DC Voltage | 720VDC | Input Voltage Range | 171 - 280VAC per phase |
| Max DC Voltage | 900VDC | Max AC current input | 40A |
| MPPT Voltage Range | 350-850VDC | PV Input | |
| Number of MPP Trackers | 2 | MPPT Voltage Range | 350-850VDC |
| Max Input Current | 2 x 18.6A | Number of MPP Trackers | 2 |
| Grid Output AC | | Max Input Current | 2 x 18.6A |
| Nominal Voltage | | Battery Mode AC Output | |
| Output Voltage Range | | Nominal Voltage | 230VAC(P-N) / 400VAC(P-P) |
| Nominal Output Current | | Grid-Tie Operation | |
| AC Input | | PV Input | |
| Input Voltage Range | 170 - 280VAC per phase | Max PV Power Input | 14.85kW |
| Max Input Current | 40A | Nominal DC Voltage | 720VDC |
| Battery Mode AC Output | | MPPT Voltage Range | 350 - 850VDC |
| Nominal Output Voltage | 230VAC(P-N) / 400VAC(P-P) | Number of MPPT | 2 |
| Battery & Charger | | Max Input Current | 2 x 18.6A |
| Nominal DC Voltage | 48VDC | Grid Tie Output | |
| Charge Current | 10A - 200A adjustable (Factory default 60A) | Nominal Output Voltage | 230VAC(P-N) / 400VAC(P-P) |



Complete Hybrid Solar Backup System

| System Type | 3 Phase Grid-Tied Hybrid System | |
|------------------------|---------------------------------|-----------------------|
| Kit Only Code | HYBH-10KVA-A | HYBH-10KVA-B |
| AC Output Voltage | 230VAC (P-N) / 400VAC (P-P) | |
| Max. Continuous Power | 10,000W | 10,000W |
| Backup Time@ full load | 86 min | 115 min |
| Backup Time@ half load | 172 min | 230 min |
| Inverter | INFINI-10K-48 | INFINI-10K-48 |
| Solar Panels | SLP290-24 x 16 | SLP290-24 x 24 |
| Solar Array Pmax | 4,640W | 6,960W |
| Batteries | NSB200-12 x 12 | GFM-800 x 24 |
| Battery Bank Capacity | 600Ah @ 48VDC | 800Ah @ 48VDC |

Additional Installation Charge

| Installation Code | INST-HYBH-10KVA-A | INST-HYBH-10KVA-B |
|-------------------|-------------------|-------------------|
|-------------------|-------------------|-------------------|

Kit Includes

- Grid-interactive Hybrid Inverter
- Solar Panels
- Solar Batteries
- Solar Combiner Box & Isolator
- Fuse protection for Batteries
- Solar Cable & Connectors
- Battery Cables & Lugs
- Battery Cabinet / Stand

NOTE: The kit contains components required for most installations, but doesn't include site specific items like racking or cable routes - Installation excl. Cable supplied is based on general estimations and additional cables and lugs or connectors may need to be ordered. Installation charge is an estimated charge and will be confirmed after site inspection and confirmation of the location of the site. Estimated pricing is based on a standard installation in the Gauteng Area.

GRID TIE INVERTERS IP54

The Fronius IG Plus generation of inverters represents an evolution of the proven Fronius IG product family. Power categories from 2.6 to 12kW promise suitability for every possible system size.

With a maximum efficiency of 95.9%, the Fronius IG Plus range achieves one of the highest values for transformer inverters.



Fronius Inverters always achieve maximum yield, even when in the partial-load range.



Fronius Transformer Inverters use a high-frequency (HF) transformer. The automatic transformer switchover facility produces three efficiency peaks.



With Fronius Datamanager we offer a WLAN interface in the inverter itself.



Fronius Inverters are ready for the Smart Grid of tomorrow. A series of smart functions, known as Advanced Grid Features, are built into the devices.

Single Phase Inverters

| Code | FIGP25V-1 | FIGP30V-1 | FIGP35V-1 | FIGP50V-1 | FIGP55V-1 | FIGP60V-1 |
|---|-------------------------------------|-----------|-----------|-----------|-------------------|-----------|
| Input Data | | | | | | |
| DC Max. Power at COS $\phi=1$ | 2740W | 3170W | 3710W | 4260W | 5260W | 6320W |
| Max. Input Current ($I_{dc, max}$) | 11.9A | 13.8A | 16.2A | 18.6A | 22.9A | 27.5A |
| Max. Input Voltage ($U_{dc,1}$) | 600V | | | | | |
| MPP Voltage Range ($U_{mpp, min} - U_{mpp, max}$) | 230 - 500V | | | | | |
| Number of DC Inputs | 6 | | | | | |
| Output Data | | | | | | |
| AC Nominal Output ($P_{ac,r}$) | 2600W | 3000W | 3500W | 4000W | 5000W | 6000W |
| Max. Output Power | 2600VA | 3000VA | 3500VA | 4000VA | 5000VA | 6000VA |
| Max. Output Current ($I_{ac, max}$) | 11.3A | 13.0A | 15.2A | 17.4A | 21.7A | 26.1A |
| Grid Connection ($U_{ac,r}$) | 1-NPE 230VAC (180 - 270V) / 50/60Hz | | | | | |
| General Data | | | | | | |
| Dimensions (H x W x D) | 673 x 434 x 250mm | | | | 968 x 434 x 250mm | |
| Weight | 23.8kg | | | | 36.9kg | |

Three Phase Inverters

| Code | FIGP55V-3 | FIGP60V-3 | FIGP80V-3 | FIGP150V-3 |
|---|---|-----------|-----------|------------|
| Input Data | | | | |
| DC Max. Power at COS $\phi=1$ | 5250W | 6300W | 7360W | 12770W |
| Max. Input Current ($I_{dc, max}$) | 22.8A | 27.5A | 32.0A | 55.6A |
| Max. Input Voltage ($U_{dc,1}$) | 600V | | | |
| MPP Voltage Range ($U_{mpp, min} - U_{mpp, max}$) | 230 - 500V | | | |
| Number of DC Inputs | 6 | | | |
| Output Data | | | | |
| AC Nominal Output ($P_{ac,r}$) | 5000W | 6000W | 7000W | 12000W |
| Max. Output Power | 5000VA | 6000VA | 7000VA | 12000VA |
| Max. Output Current ($I_{ac, max}$) | 7.3A | 8.7A | 10.2A | 17.4A |
| Grid Connection ($U_{ac,r}$) | 3-NPE 400/230VAC (180 - 270V L-N) / 50/60Hz | | | |
| General Data | | | | |
| Dimensions (H x W x D) | 1263 x 434 x 250mm | | | |
| Weight | 49.2kg | | | |

Accessories

| Code | Description |
|---------------|--|
| FRONIUS-DW | Datalogger Web - Datalogging for up to 4096 days and up to 100 inverters (Equipped with Com Card) |
| FRONIUS-DM | Data Manager Card - Direct Connection of inverter to internet for remote monitoring control. Can connect up to 99 additional inverters equipped with Com Card. |
| FRONIUS-CC | Com Card for Inverter Data Communication |
| FRONIUS-PCBOX | Power Control Box for remote controlled power reduction of systems >100kw |
| FRONIUS-SBOX | Sensor Box for collection of environmental sensor data |
| FRONIUS-IS | Irradiation Sensor c/w 3m cable $\pm 70mV @ 100W/m^2$ |



FRONIUS-DW



FRONIUS-DM FRONIUS-CC



FRONIUS-PCBOX



FRONIUS-SBOX

FRONIUS-IS

GRID-TIED SOLUTIONS

Three Phase Inverters

SolarEdge Power Optimizer - DC/DC converter which is connected by installers to each PV module. Increase energy output from PV systems by constantly tracking the maximum power point (MPPT) of each module individually.

SolarEdge PV Inverter - DC-AC PV inverter designed to work with the SolarEdge power optimizers. The fixed string voltage ensures operation at the highest efficiency at all times (>97% weighted efficiency) independent of string length and temperature.

SolarEdge PV Monitoring Portal - A web-based application that provides module-level, string-level and system-wide monitoring. The portal automatically provides alerts for accurate and immediate fault detection, localized on a virtual site map for on-site and remote troubleshooting at the module level. Module performance is communicated across existing power lines, no extra wiring required.



| Code | SE7K | SE9K | SE12.5K | SE15K | SE16K | SE17K |
|---------------------------------------|--|--------|---------|--------|--------|--------|
| Rated AC Power Output (Max) | 7000W | 9000W | 12500W | 15000W | 16000W | 17000W |
| AC Output Voltage (Nominal) | 400/230VAC (184 - 265V) / 50/60Hz ±5 | | | | | |
| Max. Current Output | 11.5A | 14.5A | 20A | 23A | 25.5A | 26A |
| Recommended Max DC Power (Module STC) | 9450W | 12150W | 16850W | 20250W | 21600W | 22950W |
| Max Input Voltage | 900VDC | | | 950VDC | | |
| Nominal DC Input Voltage | 750VDC | | | | | |
| Max Input Current PV | 12A | 15A | 21A | 22A | 23A | 23A |
| Support Communication Interface | RS485, ETHERNET (Standard), ZIGBEE or GSM (Optional) | | | | | |

- Design Flexibility
- Higher Power Yield
- Lower O&M Cost, Efficient Monitoring
- Enhanced Safety Solutions



Cloud-based Monitoring Platform



Safe DC when inverter is shut down



Module Level MPPT Tracking



Multiple orientations, tilts and module types in same string

Extended Warranty

| Code* | Description |
|----------|--|
| WE-3H-25 | Extended warranty, 3 phase Inverter 15-17kW |
| WE-3M-25 | Extended warranty, 3 phase Inverter 7-12.5kW |

Safety Standard Compliance - IEC-62103 (EN50178), IEC-62109

Emissions - IEC61000-6-2, IEC61000-6-3

Grid Connection Standards - VDE 0126-1-1, VDE-AR-N-4105, AS-4777, RD-1663, IEC61000-3-11, IEC61000-3-12, FCC part 15 classB, RoHS Yes

Power Optimisers - Only for use with Solar Edge Inverters



| Code | OPA250-RV | OPA300-LV | OPA400-EV | SE-P370 | SE-P700 |
|------------------------------|---|-----------|-----------|-----------|---------------|
| Rated Input DC Power | 250W | 300W | 400W | 370W | 730W |
| Absolute max Input Voltage | 47VDC | 55VDC | 130VDC | 60VDC | 125VDC |
| MPPT Operating range | 5-47VDC | 5-55VDC | 15-130VDC | 8 - 60VDC | 12.5 - 105VDC |
| Max Input Current | 10A | 10A | 7A | 11A | 11A |
| Max Output Current | 15A | | | | |
| Operating Output Voltage | 5-60VDC | | | | 85VDC |
| Min Nr Optimizers per String | 8 (1Ph system)/ 16 (3Ph system) | | | | 12 (3Ph Only) |
| Max Nr Optimizers per String | Module power dependant: Max 25 (1Ph) / 50 (3Ph) | | | | |

Smart Energy Meter- To Enable Feed In Limitation

| Code | Description |
|--------------------|--|
| SE-WNC-3Y-400-MB-K | Watt Node Meter to enable feed in limitation |

Split Core CT for use with Watt Node Meter

| Code | Description | Code | Description |
|---------------|---------------------------|------------------|---------------------|
| SE-ACT-0750-* | 50/100/250A Split core CT | SE-CTS-2000-1000 | 1000A Split core CT |

*Add Amps to Code:
50, 100, 250

Communication Modules



| Code | Description | Functions |
|-------------------|--|------------------------------|
| SE1000-GSEG-20E | GSM Modem, quad band c/w antenna | GSM Communication Gateway |
| SE1000-ZB02-MST | 1 Digi X-bee-Pro coordinator module, antenna (Master inverter) | Inter-inverter communication |
| SE1000-ZB02-SLV | 1 Digi X-bee-Pro (ZIGBEE) coordinator module, antenna (Slave Inverter) | Inter-inverter communication |
| SE1000-ZB00-DG2-X | 1 Digi Connect Port x 2 gateway, 1 Digi X-bee-Pro router module, antenna | Ethernet Gateway |



Control & Communication Gateway

| Code | SE1000-CCG-G |
|--------------------------|--|
| Power Supply | Included, 100-240VAC |
| Supply Voltage | 9 - 140VDC (2W) |
| Ethernet Interface | 10 / 100 - BaseT |
| Wireless Connection | ZigBee Module (optional) |
| Power Reduction INT. | 4 control pins, 5V, GND |
| Serial Interface | 2 x RS485 1 x RS232 |
| Analogue Input 1 / 2 / 3 | 0-2V or 0-10V / 0-20mV or 0-2V / -20mA to 20mA |

- Supported RS485 Devices: Solar Edge devices, non Solar Edge inverters, revenue meter, environmental sensors, 3rd party dataloggers, power reduction devices
- Logs inverter monitoring data
- Power reduction interface: Enable feed-in limitation
- Wireless connectivity: GSM or Zigbee wireless connection options

NEW SINGLE PHASE HYBRID RESIDENTIAL INVERTERS IP65

Optimal Electricity Cost

- Up to 30% More Energy by Optimizers
- 2 x Power Battery Ready, Plug & Play

Better Experience

- No Fuse & Other Quick-wear Parts, Natural Cooling
- One APP for all access procedure
- Report subscription and real-time alarm push
- Auto-definition of local components
- Module auto-mapping
- Online Smart I-V Curve Diagnosis, Module Touch Free
- Module-level monitoring

Active Safety

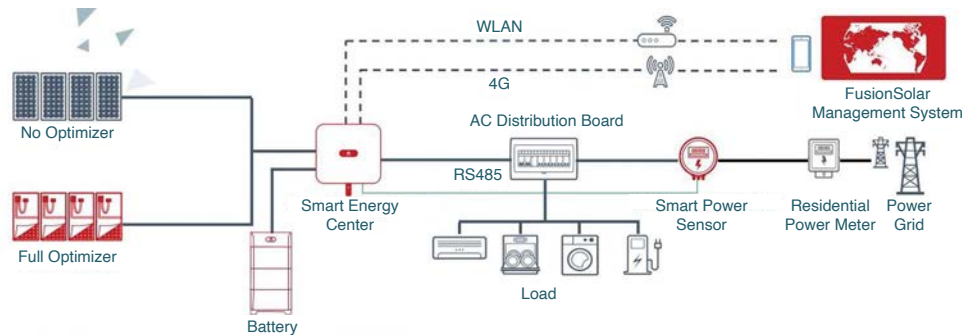
- AI Powered Active Arcing Protection
- Accurate arc fault detection via local neutral network algorithm
- Speedy arc fault protection by fast inverter shutdown



FusionSolar Smart PV Management System

- All in one App monitoring & web monitoring

FusionSolar - Single Phase Inverter



- AI powered arcing protection
- Compatible to **SUN2000-450W-P** optimizer
- Up to 3x **SUN2000 *-L1** can be cascaded

- Battery ready by direct Plug & Play, no extra device or any retrofit required
- High efficiency inverter topology, Max. Efficiency 98.4%
- Standard Warranty of 10 Years

| Code | SUN2000L-2KTL-L1 | SUN2000L-3KTL-L1 | SUN2000L-3.68KTL-L1 | SUN2000L-4KTL-L1 | SUN2000L-4.6KTL-L1 | SUN2000L-5KTL-L1 | SUN2000L-6KTL-L1 |
|--------------------------------------|--|------------------|---------------------|------------------|--------------------|------------------|------------------|
| Output (On Grid) | | | | | | | |
| Rated Output Power | 2000W | 3000W | 3680W | 4000W | 4600W | 5000W | 6000W |
| Max. Apparent Power | 2200VA | 3300VA | 3680VA | 4400VA | 5000VA | 5500VA | 6600VA |
| Rated Output Voltage | 230VAC / 50Hz | | | | | | |
| Max. Output Current | 10A | 15A | 16A | 20A | 23A | 25A | 27.3A |
| Output (Off Grid) | | | | | | | |
| Backup Box (Optional) | Backup Box – B0 | | | | | | |
| Maximum Apparent Power | 2000VA | 3000VA | 3680VA | 3000VA | 4600VA | 5000VA | 5000VA |
| Rated Output Voltage | 230VAC / 50Hz | | | | | | |
| Maximum Output Current | 9.1A | 13.6A | 16.7 A | 18.2A | 20.9A | 22.7A | 22.7A |
| PV Input | | | | | | | |
| Max. PV Power | 3000Wp | 4500Wp | 5520Wp | 6000Wp | 6900Wp | 7500Wp | 9000Wp |
| Max. Input Voltage (Voc) | 600V | | | | | | |
| Start-Up Voltage | 100V | | | | | | |
| MPPT Operating Voltage Range | 90V – 560V | | | | | | |
| Rated Input Voltage | 360V | | | | | | |
| Max. Input Current Per MPPT | 12.5A | | | | | | |
| Max. Short-Circuit Current (Isc) | 18A | | | | | | |
| MPPT Trackers/Max. Input Per Tracker | 2 / 1 | | | | | | |
| Optimizer Compatibility | DC MBUS compatible optimizer (SUN2000-450W-P,SUN2000-600W-P) | | | | | | |
| Input (DC Battery) | | | | | | | |
| Compatible Battery | LUNA2000 ESS Battery 5kWh – 30kWh | | | | | | |
| Operating Voltage Range | 350 - 560VDC | | | | | | |
| Max Operating Current | 15A | | | | | | |
| Max Charge Power | 5000W | | | | | | |
| Max Discharge Power | 2200W | 3300W | 3680W | 4400W | 4600W | 5000W | 5000W |
| General Data | | | | | | | |
| Max. Efficiency | 98,20% | 98,30% | 98,40% | 98,40% | 98,40% | 98,40% | 98,40% |
| Display | LED indicators, integrated WLAN + FusionSolar APP | | | | | | |
| Communication | RS485; Built WLAN; Fast Ethernet via SDONGLEA-05 (optional); 4G/3G/2G via SDONGLEA-03-EU (optional) | | | | | | |
| Weight | 12.0 kg (Incl. Mounting Bracket) | | | | | | |
| Dimensions | 365 x 365 x 156mm (Incl. Mounting Bracket) | | | | | | |

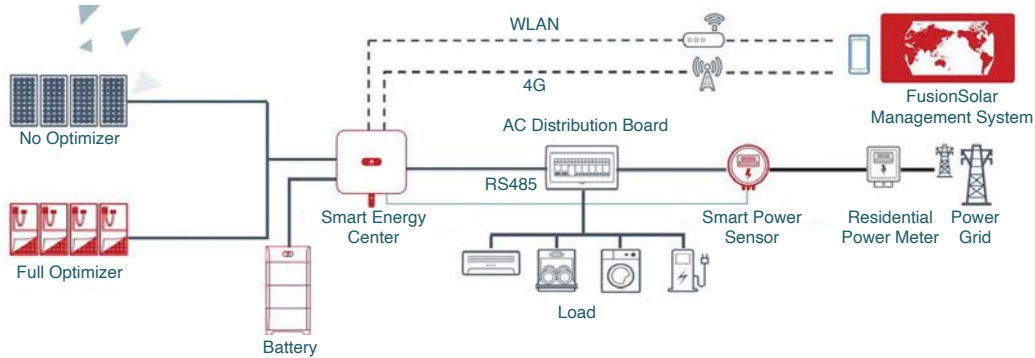
NEW **THREE PHASE HYBRID RESIDENTIAL INVERTERS IP65**

Fusion Solar-Three Phase Inverters

Two PV strings connect to the SUN2000, and their maximum power points are tracked by two maximum power point tracking (MPPT) circuits. The SUN2000 converts DC power into three-phase AC power through an inverter circuit.

Features

- Support PID recovery function for better mode performance
- Compatible to SUN2000-450W-P optimizer
- AI powered arcing protection
- Battery ready by direct Plug & Play, no extra device or any retrofit required
- A 10KTL inverter allows 10KW full power AC output plus 10KW full power battery charge
- High efficiency inverter topology, Max. Efficiency 98.6%
- Standard Warranty of 10 years



| Code | SUN2000-3KTL-M1 | SUN2000-4KTL-M1 | SUN2000-5KTL-M1 | SUN2000-6KTL-M1 | SUN2000-8KTL-M1 | SUN2000-10KTL-M1 |
|-------------------------------------|--|-----------------|-----------------|-----------------|-----------------|------------------|
| Output (On Grid) | | | | | | |
| Rated Output Power | 3000W | 4000W | 5000W | 6000W | 8000W | 10000W |
| Max. Apparent Power | 3300VA | 4400VA | 5500VA | 6600VA | 8800VA | 11000VA |
| Rated Output Voltage | 230VAC / 400VAC, 3W/N+PE | | | | | |
| Max. Output Current | 5.1 A | 6.8 A | 8.5 A | 10.1A | 13.5A | 16.9A |
| Output (Off Grid) | | | | | | |
| Backup Box (Optional) | Backup Box – B1 | | | | | |
| Maximum Apparent Power | 3000VA | 3300VA | 3300VA | 3300VA | 3300VA | 3300VA |
| Rated Output Voltage | 230VAC / 50Hz | | | | | |
| Maximum Output Current | 13.6A | 15A | 15A | 15A | 15A | 15A |
| PV Input | | | | | | |
| Recommended Max. PV Power | 4500 Wp | 6000 Wp | 7500 Wp | 9000 Wp | 12000 Wp | 15000 Wp |
| Max. Input Voltage (Voc) | 1100V | | | | | |
| Start-Up Voltage | 140V - 980V | | | | | |
| MPPT Operating Voltage Range | 200V | | | | | |
| Rated Input Voltage | 600V | | | | | |
| Max. Input Current Per MPPT | 11A | | | | | |
| Max. Short-Circuit Current (Isc) | 15A | | | | | |
| MPP Trackers/Max. Input Per Tracker | 2 / 1 | | | | | |
| Optimizer Compatibility | DC MBUS compatible optimizer (SUN2000-450W-P & SUN2000-600W-P) | | | | | |
| Input (DC Battery) | | | | | | |
| Compatible Battery | LUNA2000 Smart String ESS, 5kWh – 30kWh | | | | | |
| Operating Voltage Range | 600V - 980V | | | | | |
| Max Operating Current | 16.7 A | | | | | |
| Max Charge Power | 10000W | | | | | |
| Max Discharge Power | 3300W | 4400W | 5500W | 6600W | 8800W | 10000W |
| General Data | | | | | | |
| Max. Efficiency | 98,20% | 98,30% | 98,40% | 98,60% | 98,60% | 98,60% |
| Display | LED indicators; integrated WLAN + FusionSolar APP | | | | | |
| Communication | RS485, Built in WLAN; fast Ethernet via SDONGLE-05(optional); 4G/3G/2G via Smart SDONGLEEA-03-EU(optional) | | | | | |
| Weight (Incl. Mounting Bracket) | 17.0 kg | | | | | |
| Dimension (Incl. Mounting Bracket) | 525 x 470 x 146.5 mm | | | | | |

SOLAR

NEW FUSION SOLAR RESIDENTIAL ENERGY STORAGE SYSTEM IP66

Smart String Energy Storage System

High voltage lithium battery compatible with Fusion Solar residential inverters **SUN2000-(2-6) KTL-L1** and **SUN2000-(3-10KTL)-M1**. Supports mainly grid tied mode and other multiple working modes such as , grid-tied and off-grid, pure off-grid multi-scenario, self-consumption, time-of-use, and full fed to the grid modes. The modular system consists of a “Power Control Module” block on top and battery modules which are stackable together. This allows for easy and quick installation. Each battery pack has a built-in energy optimizer and supports independent charge and discharge management. The optimization system allows new and old battery modules to be mixed in one system and still operate at their optimum capacity.



Power Modules

| Code | LUNA2000-5-C0 |
|----------------------------|--|
| Description | Interfaces battery modules to the inverter |
| Max Battery Module Support | 3(15KWh) |
| Power Module weight | 12 kg |
| Module Dimension | 670 x 150 x 240mm |

Battery Module - Lithium-iron phosphate (LiFePO4)

| Code | LUNA2000-5kW-E0 |
|-------------------------|-------------------|
| Module energy | 5 kWh |
| Max. Output Power/ Peak | 2.5 KW / 3.5KW |
| Module Weight | 50 kg |
| Module Dimension | 670 x 150 x 360mm |

Battery Strings

The battery supports power and capacity expansion. One power control module supports a maximum of three battery expansion modules , scalable from 5kWh to 15kWh and two power control modules can be connected in parallel to give up-to 30KWh

- 100% depth of discharge (DoD)
- More usable energy with pack level energy optimization
- Safe & reliable performance with Lithium Iron Phosphate (LFP) cell
- Auto detected by App
- Compatible with both single & three phase inverter
- Faulty battery module auto isolates to keep system operating
- Standard guaranty 10 years



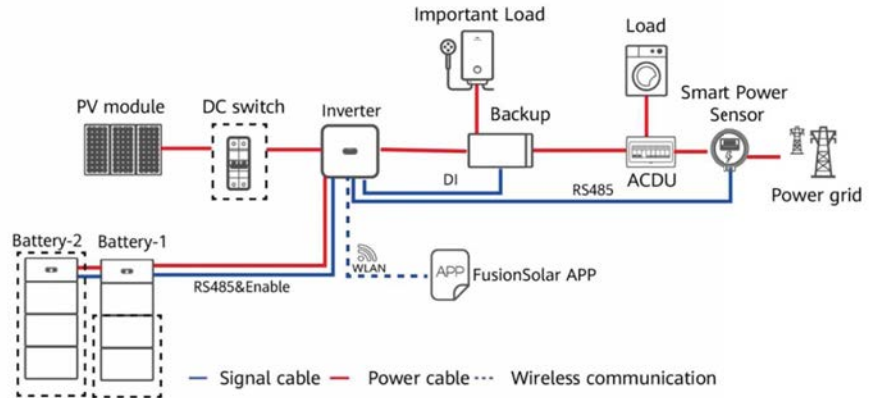
| Code | LUNA2000-5-S0 | LUNA2000-10-S0 | LUNA2000-15-S0 |
|--|---|-------------------|--------------------|
| String Rating | | | |
| Number of Battery Modules | 1 | 2 | 3 |
| Battery Usable Energy | 5kWh | 10kWh | 15kWh |
| Max. Output Power | 2.5kW | 5kW | 5kW |
| Peak Output Power | 3.5kW | 7kW | 7kW |
| Nominal Voltage (Single Phase) | 450V | | |
| Operating Voltage Range (Single Phase) | 350 – 560V | | |
| Nominal Voltage (Three Phase System) | 600V | | |
| Operating Voltage Range (Three Phase System) | 600 – 980V | | |
| Scalability | Max. 2 systems in parallel operation | | |
| Compatible Inverters | SUN2000-(2KTL6KTL)-L1; SUN2000-(3KTL-10KTL)-M1 | | |
| Communication | | | |
| Display | State of charge status indicator, LED indicator | | |
| Communication | RS485 / CAN (only for parallel operation) | | |
| General Data | | | |
| Dimension (W*D*H) | 670 x 150 x 600mm | 670 x 150 x 960mm | 670 x 150 x 1320mm |
| Weight (Floor Stand Toolkit Included) | 63.8kg | 113.8kg | 163.8kg |
| Installation | Floor stand (standard), Wall mount (optional) | | |

NEW

BACK-UP BOX

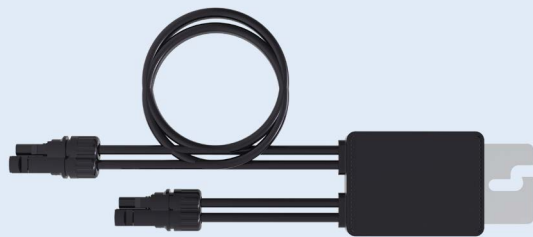
Fusion Solar - Backup Box IP65 - Automatic detection & switchover to provide backup power to critical loads

The Backup Box is used in a residential rooftop PV plant system to control the inverter grid-tied or off-grid state. When the grid fails, the inverter switches to the off-grid state and supplies power to off-grid loads in backup mode. When the grid recovers, the inverter switches back to the grid-tied state.



| Code | BACKUPBOX-B0 | BACKUPBOX-B1 |
|------------------------------|----------------------------------|----------------------------|
| AC Output (On Grid) | | |
| Grid Connection | Single Phase | Three Phase |
| Rated Voltage | 230VAC | 400VAC |
| AC Output (Backup) | | |
| Load Connection | Single Phase | Single Phase |
| Rated Voltage | 230VAC / 50Hz | |
| Maximum Apparent Power | 5000VA | 3300VA |
| Maximum Output Current | 22.7A | 15.2 A |
| Switchover Time | < 3s | |
| AC Input (Inverter) | | |
| Rated Voltage | 230VAC / 50Hz | 400VAC / 50Hz |
| Compatible Inverter | SUN2000-2/3/3.68/4/4.6/5/6KTL-L1 | SUN2000-3/4/5/6/8/10KTL-M1 |
| General Specification | | |
| Dimensions (W x H x D) | 400 x 350 x 130mm | |
| Weight | 11kg | |

SMART PV OPTIMIZERS



Fusion Solar - Smart PV Optimizer IP68

| Code | SUN2000-450W-P | SUN2000-600W-P |
|-------------------------------------|-----------------|----------------|
| Input | | |
| Rated Input DC Power | 450W | 600W |
| MPPT Operating Voltage Range | 8 - 80V | - |
| Maximum Short Circuit Current (Isc) | 13A | 14A |
| Output | | |
| Max. Output Voltage | 80V | 80V |
| Max. Output Current | 15 | - |
| Shutdown Output Voltage/Impedance | 0V / 1kΩ ± 10 % | |
| General Data | | |
| Dimensions (W x H x D) | 71 x 138 x 25mm | - |
| Weight (Including Cables) | 0.55kg | 0,6kg |

COMING SOON

- One optimizer fits all application scenarios
- Up to 30% more energy by optimizing each module's performance
- Lower BoS cost & higher oversizing with long string design
- Standard warranty 10 years

Note: Sun 2000 - 450 - P and Sun 2000 - 600W - P are able to mix in use

Long String Design (Full Optimizer)

| Inverter Codes | SUN2000-2-6KTL-L1 | SUN2000-3-10KTL-M1 | SUN2000-12KTL-20KTL-M2 | SUN2000-30-40KTL-M3 |
|--------------------------|-------------------|--------------------|------------------------|---------------------|
| Min optimizer per string | 4 | 6 | 6 | 6 |
| Min optimizer per string | 25 | 50 | 50 | 26 |
| Max DC power per string | 5000W | 10 000 W | 10 000 W | 10 000 W |

NEW

SMART METERS

Fusion Solar - Smart Power Sensor

- Measurement accuracy > class 1 with full temperature range
- Power export limitation control
- LCD display, convenient for users to set and check
- Overall power consumption ≤ 1W
- DIN35 Rail mounting



Single Phase



Three Phase

| Code | DDSU666-H-1PH | DTSU666-H-3PH |
|-------------------------------|--|---|
| Power Supply | | |
| Power Grid Type | Single Phase (2 wire) | Three phase (4 wire) |
| Input Voltage (Phase Voltage) | | 230VAC |
| Measurement Range | | |
| Line Voltage | - | 304 - 499VAC |
| Phase Voltage | | 176 - 288VAC |
| Current | 0 - 100A | 0 - 100A |
| Communication | | |
| Interface | | RS485 |
| Communication Protocol | | Modbus-RTU |
| General Data | | |
| Dimensions (H x W x D) | 100 x 36 x 65.5mm | 100 x 72 x 65.5mm |
| Weight (Including Cables) | 1.2kg | 1.5kg |
| Accessories (Included) | 1 x CT 100A / 40mA (5m), RS485 Cable (10m) | 3 x CT 250A / 50mA (5m), RS485 Cable (10 m) |

NEW

FUSION SOLAR COMMUNICATION MODULES

- Plug & Play connection to inverter
- WLAN/Fast Ethernet communication via Smart Dongle-FE
- 4G communication via Smart Dongle-4G
- Support max 10 inverters communication



WLAN Dongle



4G-Dongle



WLAN/Bluetooth

| Code | SDONGLEA-05 | SDONGLEA-03-EU | USB-AD2000-* |
|-------------------------|--|---|--|
| Function | Remote monitoring | | Local commissioning |
| Communication Standards | WLAN & Fast Ethernet | 4G: FDD-LTE, TDD-LTE 3G: WCDMA, HSDPA, HSUPA, HSPA+ 2G: GSM, GPRS, EDGE | WLAN/Bluetooth |
| Compatibility | SUN2000-*KTL-L1; SUN2000-3 to 10KTL-M1; SUN2000-12 to 20KTL-M2; SUN2000-12 to 20KTL-M3 | SUN2000-*KTL-L1; SUN2000-3 to 10KTL-M1; SUN2000-12 to 20KTL-M2; SUN2000-12 to 20KTL-M3 SUN2000-50/60KTL-M0; SUN2000-100KTL-M1 | SUN2000-50/60KTL-M0; SUN2000-100KTL-M1 |
| Dimensions (W x H x D) | 146 x 48 x 33mm | 130 x 48 x 33mm | 30 x 14 x 94mm |
| Weight | 90g | 90g | 20g |

Add * **B** Bluetooth and **C** WLAN



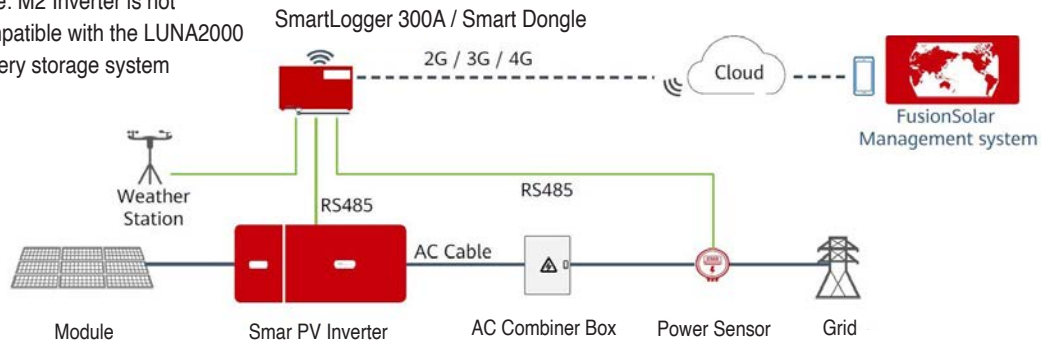
Note: **Smart I-V Curve Diagnosis** - to be ordered separately
 • Please note that I-V Curve Diagnosis is not supported when inverter is connected with power Optimizer

NEW

THREE PHASE PURE ON-GRID INVERTERS



Note: M2 Inverter is not compatible with the LUNA2000 battery storage system



Fusion Solar - Three Phase Inverter

| Code | SUN2000-12KTL-M2 | SUN2000-15KTL-M2 | SUN2000-17KTL-M2 | SUN2000-20KTL-M2 |
|-------------------------------------|--|------------------|------------------|------------------|
| Input | | | | |
| Recommended Max. PV Power | 18000Wp | 22500Wp | 25500Wp | 30000Wp |
| Max. Input Voltage | 1080V | | | |
| Start-Up Voltage | 160V - 950V | | | |
| Rated Input Voltage | 600V | | | |
| Max. Input Current Per MPPT | 22 A | | | |
| Max. Short-Circuit Current | 30 A | | | |
| MPP Trackers/Max. Input Per Tracker | 2/2 | | | |
| Output (On Grid) | | | | |
| Rated Output Power | 12000W | 15000W | 17000W | 20000W |
| Max. Apparent Power | 13200VA | 16500VA | 18700VA | 22000VA |
| Rated Output Voltage | 230 VAC / 400 VAC @50Hz | | | |
| Max. Output Current | 20A | 25.2A | 28.5A | 33.5A |
| General Data | | | | |
| Max. Efficiency | 98,50% | 98,50% | 98,50% | 98,50% |
| Display | LED indicators; integrated WLAN + FusionSolar APP | | | |
| Communication | RS485; WLAN/Ethernet via Smart Dongle-WLAN-FE (Optional) | | | |
| Weight (Incl. Mounting Bracket) | 25 kg | | | |
| Dimension (Incl. Mounting Bracket) | 525 x 470 x 262 mm | | | |
| Optimizer Compatibility | DC MBUS compatible optimizer (SUN2000-450W-P) | | | |

- AI Powered AFCI to proactively mitigate fire risk
- Up to 30% higher yields contributed by optimizing each panel performance
- Integrated PID recovery function
- Inverter with no quick wear parts, low failure rate

NEW

FUSION SOLAR SMART LOGGER IP20



Network Application Supports

- Huawei devices such as solar inverters and PID modules
- Power meters that use the DL/T645 protocol
- Third-party solar inverters, environment monitoring instruments (EMIs), transformer stations, and power meters that use the Modbus-RTU protocol
- Local operations on the SmartLogger using the mobile phone app through the built-in WLAN
- Connects to a management system that uses the Modbus TCP protocol over a wired or wireless network
- Connects to a management system that uses the IEC104 protocol in the LAN over a wired network

| Code | SL-3000A |
|---------------------------------|---|
| Max Number of Supported Devices | 80 |
| Communication Interface | WAN, LAN, RS485, 2G / 3G / 4G |
| Digital / Analog Input / Output | DI x 4, DO x 2, AI x 4, Active DO @12V, 100mA (connection with relay, sensor) |
| AC Power Supply | 100V - 240VAC, 50 Hz |
| DC Power Supply | 12V/ 24VDC |
| Power Consumption | Typical 8W, Max. 15W |
| Communication Protocol | Modbus-TCP (Ethernet), Modbus-RTU (RS485) |
| Display | LED Indicators, Embedded Web, USB 2.0 WLAN for Commissioning |
| Compatibility | Power Meters (250A/50mA) DTSU666-H-3PH |
| Dimensions (W * H * D) | 225 x 160 x 44mm |
| Weight | 2 kg |

The SmartLogger is a device dedicated for monitoring and managing the PV power system. It converges ports, converts protocols, collects and stores data, and centrally monitors and maintains devices in the PV power system.

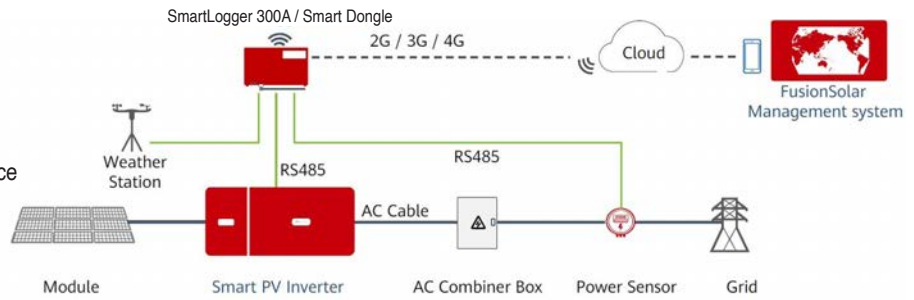
SOLAR

NEW

GRID-TIED COMMERCIAL INVERTERS

Fusion Solar - Three Phase Inverters

- AI Powered Active Arcing Protection
- C&I Tailored Enhanced Arcing Protection
- 2 Strings per MPPT, More Energy Yields
- Built-in PID Recovery, Secure Better Module Performance
- No Fuse & Other Quick-wear Parts, Inverter Touch Free
- Online Smart I-V Curve Diagnosis, Module Touch Free



SUN2000-*KTL-M3 IP66



SUN2000-*KTL-M0 IP65



SUN2000-100KTL-M1 IP66

| Code | SUN2000-30KTL-M3 | SUN2000-36KTL-M3 | SUN2000-40KTL-M3 | SUN2000-50KTL-M0 | SUN2000-60KTL-M0 | SUN2000-100KTL-M1 |
|------------------------------------|--|------------------|------------------|--|------------------|--------------------|
| Output (On Grid) | | | | | | |
| Rated AC Output Power | 30000W | 36000W | 40000W | 50000W | 60000W | 100000W |
| Max. AC Apparent Power | 33000VA | 40000VA | 44000VA | 55000VA | 66000VA | 110000VA |
| Rated Output Voltage | 230VAC / 400VAC, 3W/N+PE @50Hz | | | | | |
| Rated Output Current | 43.3A | 52.0A | 57.8A | 72.2A@400VAC | 86.7A@400VAC | 144.4A@400VAC |
| Max. Output Current | 47.9A | 58.0A | 63.8A | 79.4A@400VAC | 95.3A@400VAC | 160.4A@400VAC |
| PV Input | | | | | | |
| Rated Input Voltage | 1100V | | | | | |
| Start-Up Voltage | 200V | | | | | |
| MPPT Operating Voltage Range | 200V - 1000V | | | | | |
| Rated Input Voltage | 600V | | | | | |
| Max. Input Current Per MPPT | 26A | | | 22A | | 22A |
| Max. Short-Circuit Current(Isc) | 40A | | | 30A | | 40A |
| MPPT Trackers/Max. Input Per | 4/2 | | | 6/2 | | 10/2 |
| Optimizer Compatibility | SUN2000-450W-P ; SUN2000-600W-P | | | | | |
| General Data | | | | | | |
| Max. Efficiency | 98,70% | | | 98,70% | | 98,70% |
| Display | LED Indicators, WLAN Adaptor + FusionSolar APP | | | LED indicators, Bluetooth / WLAN + App | | |
| Communication | RS485;Built in WLAN; fast Ethernet via SDONGLE-05 (optional); 4G Smart SDONGLEEA-03-EU(optional), MBUS(Isolation Transformer required) | | | RS485; Bluetooth/ WLAN via USB2000-Adapter-C; 4G Smart SDONGLEEA-03-EU(optional), MBUS(Isolation Transformer required) | | |
| Cooling Method | Natural Convection | | | Natural Convection | | Smart Air Cooling |
| Weight (Incl. Mounting Bracket) | 43kg | | | 47 kg | | 90kg |
| Dimension (Incl. Mounting Bracket) | 640 x 530 x 270mm | | | 1075 x 555 x 300mm | | 1035 x 700 x 365mm |

Inverters SUN2000-50/60KTL-M0 & SUN2000-100KTL-M1 :

- Come with communication module **US2000Adapter-C** used for local commissioning
- Do not support Arc Fault Circuit Interruption
- Not compatible with Smart PV Optimizers
- No built-in PID recovery function
- **SUN2000-100KTL-M1** Pro which supports the AFCI to be soon available

NEW

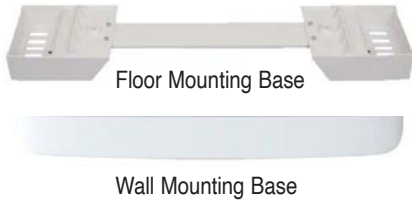
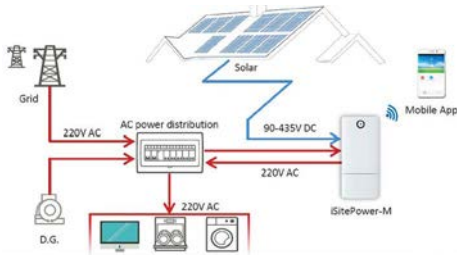
ENERGY STORAGE SYSTEM IP65

iSitePower-M Hybrid Solution

Small-scale hybrid power solution that integrates Grid Supply, Backup Power, and Power Management. It's widely used in off-grid and unreliable grid areas to replace environmentally unfriendly Diesel Generators (DGs), providing reliable and stable backup power for apartments, shops, and emergency scenarios. It is a Compact and lightweight high-density design.



5kW/15kWh



Floor Mounting Base

Wall Mounting Base

- **High Protection** - An integrated design with IP65-rated protection helps ensure power generation and power consumption security.
- **Intelligent and simple operation** - Mobile app and an integrated management system
- **Scalability** - The system supports both power expansion and energy storage capacity expansion.

- **Quiet** - An efficient natural heat dissipation design eliminates the need for cooling fans and lowers operating noise to less than 29 dB.
- **24/7 Uninterrupted Power** - Compatible with multiple energy sources, including solar and grid, with multi-energy scheduling and intelligent priority management.
- **Easy installation** - Applies to indoor and outdoor environments and can be mounted on walls or ground. Modular design for energy storage.

Power Module

| Code | ISP-M-MAP05A1 |
|--------------------------------|-----------------------------|
| AC Output | |
| Rated Power Output | 6 kVA / 5 kW |
| Output Voltage | 230 VAC/50Hz |
| Max. Output Current | 25.8A |
| Max. Bypass Input Power | 6kW |
| AC Input | |
| AC Input Voltage | 230VAC/50Hz |
| Surge Protection | 3 kVA/5 kVA, 8/20 μs |
| Max. Input Current | 30 A |
| PV Input | |
| Start-up Voltage | 100VDC |
| MPPT Voltage | 90-420VDC |
| Max. Input Voltage (Voc) | 435VDC |
| Max. Input Current (Isc) | 2 x 15 A |
| Recommended PV Power | 5000 Wp |
| No. PV Strings/MPPT Routes | 2/1 |
| Optimizer Compatibility | DC Mbus Compatible |
| DC Surge Protection | 10 kA, 8/20 μs, criterion C |
| Max. Input Current per Strings | 15 A |
| General | |
| Communication | Wi-Fi |
| Display | LED's, NetEco |
| Dimensions (W x H x D) | 700 x 246 x 152mm |
| Module Weight | Approx. 17 kg |

Battery Module

| Code | ISP-M-MAB05B1 |
|-------------------------|-------------------------------|
| Battery Module Capacity | 5 kWh per module |
| Max. Output Power | 2.5kW per Module, 5kW per ESS |
| Output/Input Voltage | 370-480VDC |
| Cycle Life | 6000 cycles @ 25°C, 80% DOD |
| Dimensions (W x H x D) | 700 x 390 x 158mm |
| Module Weight | 50kg |

Single System Scenario

Max. support 6pcs batteries, 5 kW output (5kW@30kWh)

Parallel System Scenarios

Max. 3power modules can be paralleled. Each power module supports max. 3 x batteries (15kW@45kWh)

Accessories

| Code | Description |
|----------------|--|
| ISP-M-MAP15A11 | Mounting base/bracket |
| IIO-T-WAC0411 | 4G Wireless backhaul module. It can report alarms and signals to the NetEco in wireless mode |
| ISP-M-MAP15A12 | Wall Mounting Bracket/Cover |
| ISP-M-MAP15A13 | Battery Expansion Top Cover |
| ECC-01 | Cascading Cables |

- Pure Sine Wave 230VAC output
- MPPT solar input
- Programmable Charging & Load Priority
- Safe and reliable with smart fan control
- Real-time LCD display of device parameters and running status
- Input and output overload protection



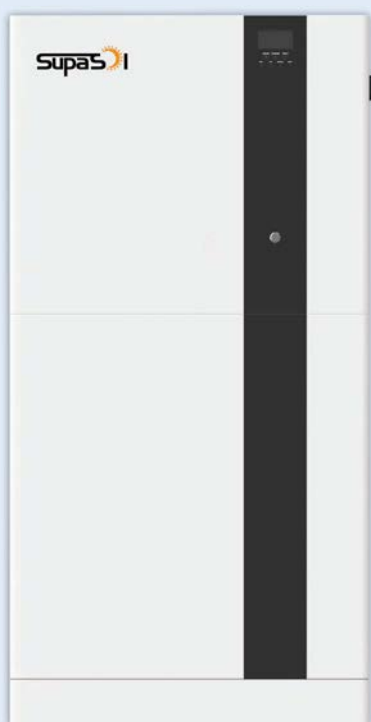
AIO-2K-LITHIUM Wall Mount

All-in-One Wall-Mount Backup Unit - LiFePO4 Battery

| Code | AIO-2K-LITHIUM | AIO-3K-LITHIUM |
|-------------------------------|---|----------------|
| AC Outputs | | |
| Rated Power | 2000W | 3000W |
| Output voltage | 230VAC (Pure sine wave) | |
| AC outlets | Terminal In/Output | |
| DC outputs | | |
| 12VDC | 2 x 2.1mm barrel (4A tot. load) | |
| USB Outputs | 2 x USB-A (5V/2.4A tot. load), 2 x USB-C (5V/3A, 9V/2A) | |
| Charging | | |
| 230VAC Adapter | N/A | |
| PV Input (MC4) | 30-160VDC / 1500W max. | |
| Battery | | |
| Capacity | 2048Wh | 3072Wh |
| Cycle life | ≥2000 cycles | |
| General Specifications | | |
| Physical Dimensions | 430 x 215 x 550mm | |
| Package Includes | - | |

NEW

ALL-IN-ONE OFF-GRID INVERTER + ESS



- Easy to use & Install
- Multiple Working Modes
- Fast & Flexible Charging

SUPASOL All-in-one ESS System

| Code | LS-AIO-3.5K-5KWH | LS-AIO-5K-5KWH |
|-------------------------|-----------------------|-----------------------|
| AC Input | | |
| Rated Input Voltage | 230VAC | |
| Input Voltage Range | 90~280V | |
| AC Output | | |
| Rated Output Power | 3500W | 5000W |
| Rated Output Voltage | 230VAC@50Hz | |
| Battery | | |
| Battery Capacity | 5.12kWh@200Ah | 5.12kWh@100Ah |
| Rated Battery Voltage | 25.6V | 51.2V |
| Battery Voltage Range | 22.4~28.8V | 44.8~57.6V |
| Max Discharge Current | 150A | 100A |
| Max Charging Current | 150A | 100A |
| Max AC Charging Current | 80A | 60A |
| Cycle life | 5000 Cycles @ 80% DOD | 6000 Cycles @ 80% DOD |
| PV Input | | |
| Max. Input Power | 4000W | 3500W |
| Solar Charge Type | MPPT | |
| Max. PV Voc | 500V | |
| MPPT Voltage Range | 120~450V | |
| Max. PV Charge Current | 80A | |
| General | | |
| Communication | CAN/RS485/WIFI | |
| Dimensions | 1190 x 600 x 184mm | |
| Weight | 100kg | 80kg |

Accessories

| Add On Batteries | LS-AIO-24V-5KW-BAT | LS-AIO-48V-5KW-BAT |
|------------------|--------------------|--------------------|
|------------------|--------------------|--------------------|



SR-EOV24-3.5K-5KWH



SR-EOV48-5K-5KWH

SRNE All-in-one ESS System

| Code | SR-EOV24-3.5K-5KWH | SR-EOV48-5K-5KWH |
|-------------------------|-----------------------|-----------------------|
| AC Input | | |
| Rated Input Voltage | 230VAC | |
| Input Voltage Range | 90~280V | |
| AC Output | | |
| Rated Output Power | 3500W | 5000W |
| Rated Output Voltage | 230VAC@50Hz | |
| Battery | | |
| Battery Capacity | 5.12kWh@200Ah | 5.12kWh@100Ah |
| Rated Battery Voltage | 25.6V | 51.2V |
| Battery Voltage Range | 22.4~28.8V | 44.8~57.6V |
| Max Discharge Current | 150A | 100A |
| Max Charging Current | 150A | 100A |
| Max AC Charging Current | 80A | 60A |
| Cycle life | 5000 Cycles @ 80% DOD | 6000 Cycles @ 80% DOD |
| PV Input | | |
| Max. Input Power | 4000W | 3500W |
| Solar Charge Type | MPPT | |
| Max. PV Voc | 500V | |
| MPPT Voltage Range | 120~450V | |
| Max. PV Charge Current | 80A | |
| General | | |
| Communication | CAN/RS485/WIFI | |
| Dimensions | 1190 x 600 x 184mm | |
| Weight | 100kg | 80kg |

SOLAR

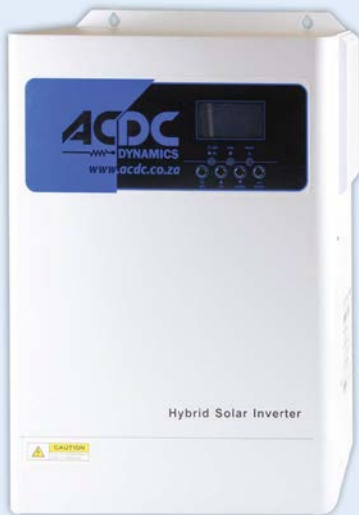


- Power factor 1.0
- Pure Sine Wave
- Optional WiFi Dongle for Remote monitoring (see HP-WIFI)
- Built-in MPPT
- Support multiple output priority: UTL, SOL, SBU, SUB
- Lithium battery BMS communication & activation included

EM Range Solar Inverters

| Code | EM-3.5K 24VDC | EM-5.5K 48VDC |
|-------------------------------|-------------------------|-----------------|
| AC Input | | |
| Rated Input Voltage | 230VAC | |
| Input Voltage Range | 170-280VAC | |
| AC Output | | |
| Rated Power | 3.5kW | 5.5kW |
| Rated Voltage | 230VAC ± 5% @50Hz | |
| Surge Power | 7000VA | 11000VA |
| Battery | | |
| Nominal Voltage | 24VDC | 48VDC |
| Battery Type | Lithium/Lead-acid | |
| Maximum AC Charge Current | 80A | |
| PV Input | | |
| Maximum PV Input Power | 1500W | 5500W |
| Number of MPPT Trackers | 1 | 1 |
| Max. PV Voc | 160VDC | 500VDC |
| MPPT Range | 30VDC - 160VDC | 60VDC - 500VDC |
| Max PV Input Current | 60A | 18A |
| General Specifications | | |
| Communications | RS232 + RS485 | |
| Accessories included | BMS Communication Cable | |
| Weight | 7kg | 7.2kg |
| Dimensions (WxHxD) mm | 358 x 295 x 100 | 295 x 105 x 438 |

HP-Range Solar Inverter



- Pure sine wave inverter - PF 1
- High PV Input Voltage Range
- Built in Anti-dust Kit for Harsh Environments
- Parallel Operation up to 12 Units - 1 Phase or 3 Phase
- Adjustable Charging and Load Priorities
- RS485 Communication for BMS
- Optional Wifi Dongle for Remote Monitoring

| Code | HP-5K 48VDC |
|-------------------------------|---|
| AC Input | |
| Rated Input Voltage | 230VAC |
| Input Voltage Range | 90~280V |
| AC Output | |
| Rated Power | 5000W/5000VA |
| Rated Voltage | 230VAC@50Hz |
| Surge Power | 10000VA |
| Battery | |
| Normal Voltage | 51.2/48VDC |
| Battery Type | Lead-acid or Lithium |
| Maximum AC Charge Current | 60A |
| PV Input | |
| Maximum PV Input Power | 5000W |
| Number of MPPT Trackers | 1 |
| Max. PV Voc | 5000VDC |
| MPPT Range | 120-450VDC |
| Max Input PV Current | 18A |
| General Specifications | |
| Communication | RS485 / RS232 / Dry Contact |
| Accessories Included | BMS Communication cable, Parallel Communication Cable |
| Weight | 10kg |
| Dimensions (WXHXD) | 295 x 448 x 105mm |

Accessories

| Code | Description |
|---------|-----------------------------------|
| HP-WIFI | Wifi Dongle for Remote Monitoring |

NEW

OFF-GRID INVERTERS



Rack Mounted Solar Inverter

| Code | RM-5.5K 48VDC |
|-------------------------------|---|
| AC Input | |
| Rated Input Voltage | 230VAC |
| Input Voltage Range | 170-280VAC |
| AC Output | |
| Rated Power | 5500W |
| Rated Voltage | 230VAC |
| Surge Power | 11 000VA |
| Battery | |
| Nominal Voltage | 48VDC |
| Battery Type | Lithium |
| Maximum AC Charge Current | 60A |
| PV Input | |
| Maximum PV Input Power | 5500W |
| Number of MPPT Trackers | 1 |
| Max. PV Voc | 500VDC |
| MPPT Range | 120VDC-450VDC |
| Max PV Current | 100A |
| General Specifications | |
| Communications | USB, RS232, Dry Contact |
| Accessories included | BMS Communication Cable, Parallel Communication Cable |
| Weight | 10kg |
| Dimensions (WxHxD) mm | 438 x 438 x 130 |

- Power factor 1.0
- Pure Sine Wave
- Optional WiFi Dongle for Remote monitoring (see HP-WIFI)
- Built-in MPPT 100A
- Detachable dust cover for hash environments
- Support multiple output priority: UTL, SOL, SBU, SUB
- Parallel operation up to 12 units



Dual-Output Solar Inverter

| Code | XANADU-10K 48VDC |
|-------------------------------|----------------------------|
| AC Input | |
| Rated Input Voltage | 230VAC |
| Input Voltage Range | 170-280VAC |
| AC Output | |
| Rated Power | 10KVA |
| Rated Voltage | 230/220VAC \pm 5% @50Hz |
| Surge Power | 20KVA |
| Battery | |
| Nominal Voltage | 48VDC |
| Battery Type | Lithium/Lead-acid |
| Maximum AC Charge Current | 200A |
| PV Input | |
| Maximum PV Input Power | 12000W |
| Number of MPPT Trackers | 2 |
| Max. PV Voc | 500VDC |
| MPPT Range | 120VDC - 450VDC |
| Max PV Input Current | 18A x 2 |
| General Specifications | |
| Communications | USB/RS485/CAN/ DRY CONTACT |
| Accessories included | Parallel Kit, WIFI Module |
| Weight | 22.85kg |
| Dimensions (WxHxD) mm | 460 x 700 x 120 |

- Pure Sine Wave
- Built-in WiFi Dongle for Remote monitoring
- Built-in MPPT 200A
- Parallel operation
- Lithium battery BMS communication
- Dual PV input
- Configurable AC/Solar input priority via LCD setting.

OFF-GRID INVERTERS



PV18-1K 12VDC



PV18-3K 24VDC

- Pure sine wave solar inverter
- Output power factor 1
- Built-in MPPT solar charger
- Supports WIFI remote monitoring
- Mains or Generator power
- Configurable AC/Solar charger priority via LCD setting

PV18 Range Solar Inverters

| Code | PV18-1K 12VDC | PV18-3K 24VDC | PV18-5K 48VDC |
|-------------------------------|--|-------------------|-------------------|
| AC Input | | | |
| Rated Input Voltage | 230VAC | | |
| Input Voltage Range | 170-280VAC (UPS Mode) / 90-280VAC (Appliance Mode) | | |
| AC Output | | | |
| Rated Output | 1000VA/1000W | 3000VA/3000W | 5000VA/5000W |
| AC Voltage | 230VAC @50Hz | | |
| Surge Power | 2000VA | 6000VA | 10000VA |
| Battery | | | |
| Nominal Voltage | 12VDC | 24VDC | 48VDC |
| Battery Type | Lead-Acid or Lithium | | |
| Maximum AC Charge Current | 10/20A | 20/30A | 60A |
| PV Input | | | |
| Maximum PV Input Power | 625W | 1500W | 4000W |
| Number of MPPT Trackers | 1 | 1 | 1 |
| Max. PV Voc | 75VDC | 145VDC | 145VDC |
| MPPT Range | 15-75VDC | 30-120VDC | 60-130VDC |
| Max Solar Charge Current | 60A | 60A | 80A |
| General Specifications | | | |
| Weight | 5kg | 7.4kg | 14kg |
| Dimensions (WxHxD) | 225 x 355 x 92mm | 272 x 355 x 100mm | 298 x 468 x 125mm |



Communication Accessories

| Code | Description |
|-----------|---------------------------------|
| PV18-WIFI | Wi-Fi module for PV18 Inverters |

POWER INVERTER/CHARGER



- Pure sine wave inverter
- Support LiFePO4 Lithium Battery Pack and Lead-acid Battery.
- Built-in selectable charger.
- Display accumulated working time
- Overload & short-circuit protection
- Battery reverse polarity protection,
- Deep discharge protection
- Automatic line-to-battery switch over

EP1500 Inverter/Charger

| Code | EP-1500-600W | EP-1500-1200W |
|-------------------------------|--|---------------------|
| AC Input | | |
| Rated Input Voltage | 230VAC | |
| Input Voltage Range | 184-278VAC | |
| AC Output | | |
| Rated Power | 600W | 1200W |
| Rated Voltage | 230VAC ± 10% @50Hz | |
| Battery | | |
| Nominal Voltage | 12VDC | 24VDC |
| Battery Type | Lithium/Lead-acid Battery (Selectable) | |
| Maximum AC Charge Current | 10A/15A (Selectable) | 5A/10A (Selectable) |
| General Specifications | | |
| Accessories included | AC input cable, COM USB cable | |
| Weight | 2.9kg | 3.1kg |
| Dimensions (WxHxD) mm | 246 x 253 x 87 | 246 x 253 x 87 |



- Pure sine wave inverter
- Support LiFePO4 Lithium Battery Pack and Lead-acid Battery
- Built-in selectable charger
- Display accumulated working time
- Overload & short-circuit protection
- Battery reverse polarity protection
- Deep discharge protection
- Automatic line-to-battery switch over
- Optional WIFI & BMS communication

EP15 Inverter/Charger

| Code | EP15-0612PLUS |
|-------------------------------|---|
| AC Input | |
| Rated Input Voltage | 230VAC |
| Input Voltage Range | 184-278VAC |
| AC Output | |
| Rated Power | 600W |
| Rated Voltage | 230VAC ± 10% @50Hz |
| Surge Power | - |
| Battery | |
| Nominal Voltage | 12VDC |
| Battery Type | Lithium/Lead-acid Battery (Selectable) |
| Maximum AC Charge Current | 15A |
| General Specifications | |
| Communications | USB-A type WIFI Socket, USB-B type COM Socket (PC) & RJ11 type BMS Socket(Optional) |
| Accessories included | AC input cable, COM USB cable |
| Weight | 3.0kg |
| Dimensions (WxHxD) mm | 320 x 231 x 96 |

LUXPOWER INVERTERS



- Intelligent Offgrid & Hybrid Modes
- PV & AC Power Loads Simultaneously
- Wide PV Input Voltage Range
- Advanced Parallel, up to 50kW
- Separate Generator Input

SNA Grid Interactive Storage Inverter

| Code | LUX-SNA-5K 48VDC | |
|-------------------------------|---------------------------|--|
| AC Output | | |
| Rated Input Voltage | 230VAC | |
| Input Voltage Range | 110-280VAC | |
| AC Input | | |
| Rated Power | 5000W/5000VA | |
| Output Voltage | 230VAC @50Hz | |
| Surge Power | 10000VA | |
| Battery | | |
| Nominal Voltage | 51.2/48VDC | |
| Battery Type | Lead-acid or Lithium | |
| Maximum AC Charge Current | 60A | |
| PV Input | | |
| Maximum PV Input Power | 3200W/3200W | |
| Number of MPPT Trackers | 2 | |
| Max. PV Voc | 480VDC | |
| MPPT Range | 100-385VDC | |
| Max PV String Current | 13A /13A | |
| Max PV Charge Current | 100A | |
| General Specifications | | |
| Communication with BMS | RS485/CAN | |
| Accessories included | Wifi Communication Dongle | |
| Weight | 14kg | |
| Dimensions (WxHxD) | 330 x 504 x 135mm | |



- Colour LCD, Touch Screen
- Grid Feeding with Feed in Limitation
- Advanced Parallel Function
- AC Coupling Function
- 3 MPPT Input
- Plug & Play Seamless Switching under 10ms
- Advanced Remote Monitoring
- Supplied with CT & Wifi Dongle
- Separate Generator Input

LXP Hybrid Grid Tied Storage Inverter

| Code | LUX-LXP-10K 48VDC | LUX-LXP-12K 48VDC |
|-------------------------------|----------------------|-------------------|
| AC Data | | |
| Rated Input Voltage | 230VAC @ 50Hz | |
| Input Voltage Range | 180 - 270VAC | |
| Rated Output Power - On-grid | 10000W | 12000W |
| Rated Output Power - Back-up | 10000W | 12000W |
| Output Voltage | 230VAC @ 50Hz | |
| Rated Current @ 240VAC | 41.6A | 50A |
| Battery | | |
| Nominal Voltage | 48VDC (40-60VDC) | |
| Battery Type | Lead Acid or Lithium | |
| Maximum DC Charge Current | 210A | 250A |
| Maximum DC Discharge Current | 210A | 250A |
| PV Input | | |
| Maximum PV Input Power | 15000W | 18000W |
| Number of MPPT Trackers | 2 | 3 |
| Max. PV Voc | 600VDC | 600VDC |
| MPPT Range | 120-480VDC | 120-480VDC |
| No. of Strings per MPPT | 2+2 | 2+1+1 |
| Max. PV Current | 25A+25A | 25A+15A+15A |
| General Specifications | | |
| Weight | 40kg | 42kg |
| Dimensions (WxHxD) | 440 x 650 x 220mm | 490 x 670 x 265mm |



HYBRID GRID-TIED INVERTERS



- Power factor 1.0
- Pure Sine Wave
- Built-in MPPT
- Lithium battery BMS communication
- Compatible with Lead-acid & Lithium Batteries
- Dual PV input
- Single-phase grid connection
- Natural cooling design
- Remote configuration & upgrade

SE-H Hybrid Grid Tied Storage Inverters (Single-Phase)

| Code | SE-H-6K 48VDC | SE-H-10K 48VDC |
|-------------------------------|------------------------|-----------------|
| AC Data | | |
| Rated Input Voltage | 230VAC | 230VAC |
| Input Voltage Range | 150-300VAC | - |
| Rated Output Power - On-grid | 6000W | 10000W |
| Rated Output Power - Back-up | 6000W | 10000W |
| Output Voltage | 230VAC @50Hz | 230VAC @50Hz |
| Rated Current @ 240VAC | 27.2A | 46A |
| Battery | | |
| Nominal Voltage | 48VDC | |
| Battery Type | Lithium-ion/ Lead-acid | |
| Max DC Charge Current | 120A | 210A |
| Max DC Discharge Current | 120A | 210A |
| PV Input | | |
| Maximum PV Input Power | 9000W | 15000W |
| Number of MPPT Trackers | 2 | 3 |
| Max. PV Voc | 550VDC | 600VDC |
| MPPT Range | 230VDC - 480VDC | 70VDC - 540VDC |
| No. of Strings per MPPT | 1 | 2 |
| Max. PV Current | 15A x 2 | 30A + 22A + 22A |
| General Specifications | | |
| Weight | 25kg | 35kg |
| Dimensions(WxHxD) mm | 515 x 450 x 175 | 420 x 800 x 240 |

Supasol

Powering Tomorrow, Today!

Commitment to a brighter, eco-conscious future

At Supasol, we are dedicated to ushering in a more sustainable future. Our primary focus and unwavering commitment revolve around enhancing the lives and livelihoods of homeowners and electrical professionals alike.

Our innovation is geared towards providing a sustainable and optimized power solution that is not only financially accessible but also locally supported and developed.



www.supasol.co.za



@Supasol Supasol_ Supasolpower



Reduce Electricity costs by 50% per year



Free Energy available at night



Participate in peak load shifting to gain economic benefits

Unique value added services



Repair services with quick turnaround guarantee.

Benefit from our dedicated support channels



Registered installers enjoy complimentary Solar Design & Consultation services

Free, certified, and accredited training.



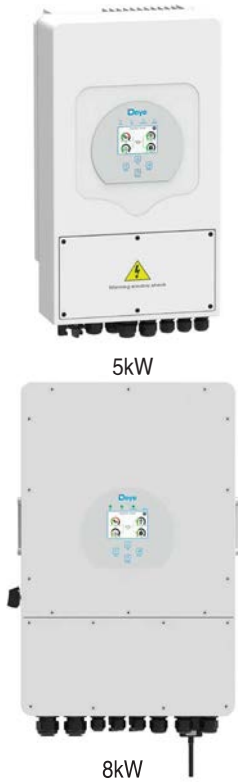
5 Year Warranty

Simply register your system & warranty online

HYBRID GRID-TIED INVERTERS

Hybrid Inverter with Energy Storage

- Colourful touch LCD, IP65 protection degree
- Max. charging/discharging current of 120A
- Frequency droop control, Max.16pcs parallel
- 6 time periods for battery charging/discharging
- Support storing energy from diesel generator
- DC couple and AC couple to retrofit existing solar system
- Comes with WiFi module for remote monitoring
- Programmable multiple operation modes: On-Grid, Off-Grid and UPS
- Smart load function



| | Single Phase | | | Three Phase |
|--------------------------------|--------------------------------|-----------------|------------------|---------------------|
| Code | DEYE-H-5K 48VDC | DEYE-H-8K 48VDC | DEYE-H-16K 48VDC | DEYE-H-12K-3P 48VDC |
| AC Data | | | | |
| Rated AC Output & UPS Power | 5000W | 8000W | 16000W | 12000W |
| AC Output Rated Current | 22.7A/21.7A | 36.4A/34.8A | 72.7A/69.6A | 18.2A/17.4A |
| Max. AC Passthrough Current | 35A | 50A | 100A | 45A |
| Input/Output Voltage | 230VAC @50Hz | | | 230/400VAC @50Hz |
| PV String Input | | | | |
| Max. DC Input Power | 6500W | 10400W | 20800W | 15600W |
| PV Input Voltage | 370VDC (125-500VDC) | | | 550VDC(160-800VDC) |
| MPPT Range | 150-425VDC | | | 200-650VDC |
| PV Input Current per MPPT | 13A + 13A | 26A + 26A | 26A + 26A + 26A | 22A + 13A |
| No. of MPPT Trackers | 2 | 2 | 3 | 2 |
| No.of Strings Per MPPT Tracker | 1 + 1 | 2 + 2 | 2 + 2 + 2 | 2 + 1 |
| Battery Data | | | | |
| Battery Type | Lead-acid or Lithium-ion | | | |
| Battery Voltage Range | 40-60VDC | | | |
| Max. Charging Current | 120A | 190A | 290A | 240A |
| Max. Discharging Current | 120A | 190A | 290A | 240A |
| External Temperature Sensor | Yes | | | |
| General Data | | | | |
| Communication with BMS | RS485; CAN | | | |
| Accessories Included | WiFi Communication Dongle & CT | | | |
| Weight | 24kg | 32kg | 48.5kg | 33.6kg |
| Dimensions mm (WxHxD) | 330 x 580 x 232 | 420 x 670 x 233 | 464 x 799 x 300 | 422 x 702 x 281 |

- Colourful Touch LCD, IP65 Protection
- Max. Charging / Discharging Current 100A
- Max. 10pcs Parallel for On-grid Operation, Supports Multiple Batteries Parallel
- High Voltage Battery, Higher Efficiency
- 6 Time Periods for Battery Charging/Discharging
- Support Storing Energy from Diesel Generator
- DC Couple and AC Couple to Retrofit existing Solar System
- Comes with WiFi Module for Remote Monitoring
- Programmable Multiple Operations Mode: On-Grid, Off-Grid and UPS
- Smart Load Function



High Voltage Hybrid Inverter with Energy Storage

| Code | DEYE-H-20-3P-HV | DEYE-H-50-3P-HV |
|---------------------------------|--------------------------------|-------------------|
| AC Data | | |
| Rated AC Output & UPS Power | 20000W | 50000W |
| AC Input/Output Rated Current | 30.4A/29A | 75.8A/72.5A |
| Max. AC Passthrough Current | 80A | 200A |
| Input/Output Voltage | 230/400VAC | 230/400VAC |
| PV String Input | | |
| Max. DC Input Power | 26000W | 65000W |
| PV Input Voltage | 180-1000VDC | 180-1000VDC |
| MPPT Range | 150-850VDC | 150-850VDC |
| PV Input Current per MPPT | 26+26 | 36+36+36+36 |
| No. of MPPT Trackers | 2 | 4 |
| No. of Strings per MPPT Tracker | 2+2 | 2+2+2+2 |
| Battery Data | | |
| Battery Type | Lithium-Ion | Lithium-Ion |
| Battery Voltage Range | 160-700VDC | 160-800VDC |
| Max. Charging Current | 37A | 50A+50A |
| Max. Discharging Current | 37A | 50A+50A |
| General Data | | |
| Communication with BMS | RS485/CAN | |
| Accessories Included | WiFi Communication Dongle & CT | |
| Weight | 30.5kg | 80kg |
| Size (WxHxD) | 408 x 638 x 237mm | 527 x 894 x 294mm |

SOLAR HYBRID EASY INSTALL KITS



MKS-CK-05

Easily consolidate all connections to your solar system in one attractive wall mounting enclosure. Simply connect the incoming cables to the marked terminals.

Connections:

- AC input
- AC output
- PV input
- Battery +/-

Consolidated Solar Inverter Distribution Board - Hybrid Grid Interactive

| Code c/w Inverter | MKS-CK-03 | MKS-CK-05 | HYLH-CK-5K |
|---------------------|---------------|---------------|------------------|
| Inverter (Included) | PV18-3K 24VDC | PV18-5K 48VDC | LUX-SNA-5K 48VDC |

Kit includes:

- AC Isolators (input/output)
- PV Isolator & Fuse Protection
- Class 2 PV Surge Protection
- Battery Fuse Protection
- Change Over Switch (inverter/off/bypass)
- Earth Leakage Protection for On-Board AC Outlets



DEYE-CK-5K

Easily consolidate all connections to your solar system in one attractive wall mounting enclosure. Simply connect the incoming cables to the marked terminals.

Connections:

- AC input
- AC output
- PV input
- Battery +/-

Consolidated Solar Inverter Distribution Board - Hybrid On-Grid

| Code c/w Inverter | DEYE-CK-5K | DEYE-CK-8K |
|---------------------|-----------------|-----------------|
| Inverter (Included) | DEYE-H-5K 48VDC | DEYE-H-8K 48VDC |

Kit includes:

- AC Isolators (input/output)
- PV Isolator & Fuse Protection
- Class 2 PV Surge Protection
- Battery Fuse Protection
- Change Over Switch (inverter/off/bypass)
- Earth Leakage Protection for On-Board AC Outlets

SOLAR HYBRID EASY INSTALL KITS

Compact Home Easy Install Kit - with Lithium Battery

Easily consolidate all connections to your solar system in one attractive wall mounting enclosure. Simply connect the incoming cables to the marked terminals.



| Code | HYLH-CK-1K-1280WH | HYLH-CK-3K-2560WH |
|--------------------------|-------------------|--------------------|
| AC Output Voltage | 230VAC | |
| Max Continuous Power | 1000W / 1000VA | 3000W / 3000VA |
| Back up Time @ Full Load | 69min | 45min |
| Back up Time @ Half Load | 138min | 90min |
| Inverter | PV18-1K 12VDC | PV18-3K 24VDC |
| Lithium Battery | BN13V-108-1.4K | BN13V-108-1.4K x 2 |
| Useable Battery Capacity | 1280Wh | 2560Wh |

Does not include: PV Panels, PV Mounting Structure, Installation

Kit includes:

- AC Circuit Breakers
- Earth Leakage Protection
- Battery Fuse Protection / Isolation
- South African Socket Outlet
- Class 2 PV Surge Arrestor
- PV Isolator & Fuse Protection

Connections:

- AC input
- AC output
- PV input
- Battery +/-

5kVA Home Easy Install Kit with Pylontech Lithium Batteries

| Code | HYLH-5K-2.4KWH | HYLH-5K-4.8KWH |
|--------------------------|---|------------------|
| AC Output Voltage | 230VAC | |
| Max Continuous Power | 5000W / 5000VA | |
| Back up Time @ Full Load | 25min | 45min |
| Back up Time @ Half Load | 50min | 90min |
| Easy Install Kit | HYLH-CK-5K | |
| Lithium Battery | US2000B-PLUS x 1 | US2000B-PLUS x 2 |
| Useable Battery Capacity | 2200Wh | 4400Wh |
| Includes | Stacking Bracket and Battery Input Cable Set | |

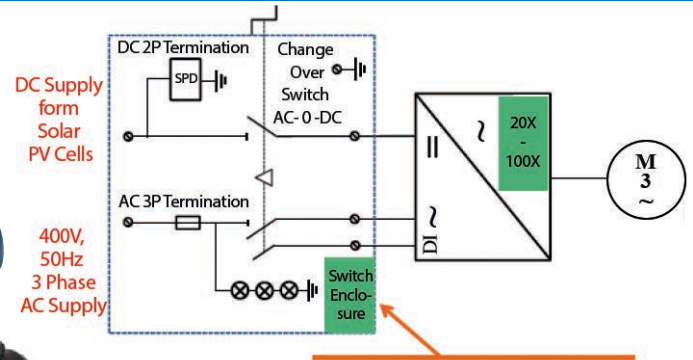
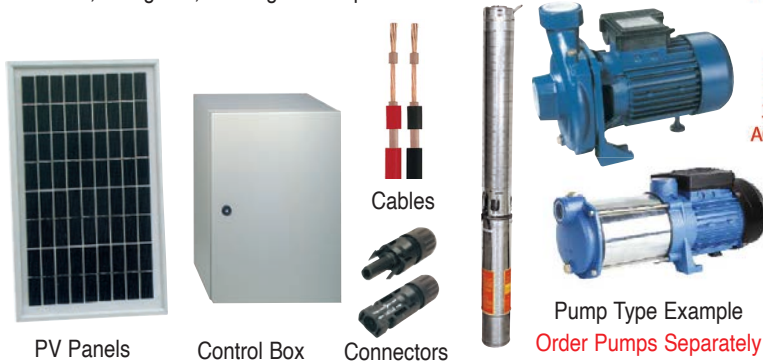
Does not include: PV Panels, PV Mounting Structure, Installation



SOLAR SUPPLY KIT FOR 3PH 400VAC PUMP / MOTORS

Solar Pump Kits

Supplied to ensure correct sizing of PV array to user selected pump. The kits consist of PV panels, Solar cable, solar connectors and solar pump control box. The solar pump box contains a Vacon Solar drive controller, String box, Switchgear and protection.



Solar Pump Drive Kit Connection Example - Solar panel or Grid connection mode: With an external changeover switch, Inverter can be supplied either from mains or solar panels. This will enable night time pumping or panel maintenance operations. The Vacon 20X-100X series include "Hot Commutation" from the grid to PV and vice-versa.

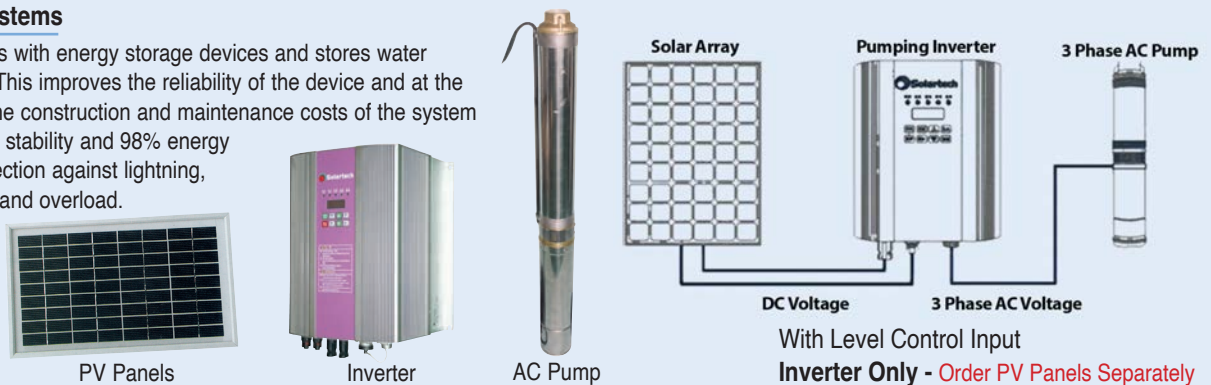
| Kit Code | 380VAC Motor kW | Motor Voltage | PV Array Power | PV Panels Required | Control Box | Solar Cables | Solar Connectors |
|-----------------|-----------------|---------------|----------------|--------------------|-------------|--------------------------------|------------------------------------|
| SOL1040W-0.37KW | 0.37kW | 230V 3PH | 1040W | 4 x RHV260 | SPD-07 | 1 x SW102/10m 1 x SW104/10m | 1 x PV-ST101/F2 1 x PV-ST101/M2 |
| SOL1040W-0.55KW | 0.55kW | 230V 3PH | 1040W | 4 x RHV260 | SPD-07 | | |
| SOL1040W-0.75KW | 0.75kW | 230V 3PH | 1040W | 4 x RHV260 | SPD-07 | | |
| SOL1800W-1.1KW | 1.1kW | 400V 3PH | 1800W | 6 x RHV300 | SPD-11 | | |
| SOL2100W-1.5KW | 1.5kW | 400V 3PH | 2100W | 7 x RHV300 | SPD-15 | | |
| SOL3600W-2.2KW | 2.2kW | 400V 3PH | 3600W | 12 x RHV300 | SPD-22 | | |
| SOL7200W-5.5KW | 5.5KW | 400V 3PH | 7200W | 24 x RHV300 | SPD-55 | | |

SOLAR PUMPING SYSTEMS

Solar Pumping Systems

The system dispenses with energy storage devices and stores water instead of electricity. This improves the reliability of the device and at the same time it lowers the construction and maintenance costs of the system dramatically. Excellent stability and 98% energy conversion ratio. Protection against lightning, dry running, blocking and overload.

System include
Inverter, Pump
+ 30 m Cable &
Connections
Note: No level
control input



With Level Control Input
Inverter Only - Order PV Panels Separately

| Code | kW | Description | Head (m) | Flow Water (m³/day) | No. of PV Panels | Code | Code | Rated Output | | MPP Voltage |
|----------|--------|----------------------|------------|---------------------|------------------|---------|---------|--------------|-----------|-------------|
| | | | | | | | | Current | KW | |
| PS370-1 | 0.37kW | Solar Pumping System | 27 - 35m | 10-7.5m³/day | 4 x 260W HV | RHV-260 | PB400L | 3A | 0.25-0.4 | 280-350V |
| PS550-1 | 0.55kW | Solar Pumping System | 37 - 52m | 10-7.5m³/day | 4 x 260W HV | RHV-260 | PB750L | 5A | 0.55-0.75 | 280-350V |
| PS750-1 | 0.75kW | Solar Pumping System | 45 - 61m | 10-7.5m³/day | 4 x 260W HV | RHV-260 | | | | |
| PS1100-2 | 1.10kW | Solar Pumping System | 54 - 73m | 10-7.5m³/day | 8 x 260W HV | RHV-260 | PB1500L | 7A | 1.1-1.5 | 280-350V |
| PS1500-2 | 1.50kW | Solar Pumping System | 68 - 95m | 10-7.5m³/day | 10 x 260W HV | RHV-260 | | | | |
| PS2200-1 | 2.20kW | Solar Pumping System | 91 - 133m | 10-7.5m³/day | 12 x 300W HV | RHV-300 | PB2200L | 11A | 2.2 | 280-350V |
| PS3000-1 | 3.7kW | Solar Pumping System | 118 - 169m | 15-10m³/day | 18 x 260W HV | RHV-260 | PB3700H | 9A | 3-3.7 | 500-600V |
| PS4000-1 | 5.5kW | Solar Pumping System | 155 - 207m | 15-10m³/day | 27 x 260W HV | RHV-260 | PB5500H | 13A | 4-4.5 | 500-600V |

Features

- Solar pumping inverter converts DC voltage from the solar array into AC voltage to drive the pump.
- With the function of MPPT (maximum power point tracking), it regulates the output frequency according to irradiation in real time to achieve the maximum power.

Advantages

- To drive pumps equipped with 3-phase induction motors
- Optimized SPWM (Sinusoidal pulse width modulation)
- Various operation modes & MPPT algorithms are available
- Option of water-level detection and control is available on stand-alone inverters
- Adjustable speed range of pump based on the actual situation (available solar power) of the system.
- Protection functions: lightning, over/low input voltage, over current and overload protection, etc.

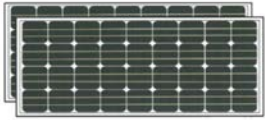
Applications

- Desert control
- Sea water desalinization
- Agricultural irrigation
- Daily water supply
- Forest irrigation
- Remote watering troughs for animals
- Waste water treatment

DC SOLAR PUMPS



TSSP



Order PV Panels Separately



TSQB

Pool Pumps

| Code | Voltage | Power | Max Flow Rate | Max Head | I/O Size | Required PV Panels |
|--------------------|---------|-------|---------------------|----------|-----------|--------------------|
| TSSP18-12-72/750 | 72VDC | 750W | 18m ³ /h | 12m | 2" x 2" | 80W x 14 |
| TSSP25-15-110/1200 | 110VDC | 1200W | 25m ³ /h | 15m | 2½" x 2½" | 100W x 16 |
| TSSP30-20-110/1500 | 110VDC | 1500W | 30m ³ /h | 20m | 3" x 3" | 100W x 16 |

Pool Pump With Built in Controller

| Code | Voltage | Power | Max Flow Rate | Max Head | I/O Size | Required PV Panels |
|------------------|---------|-------|---------------------|----------|----------|--------------------|
| TSSP12-14-48/500 | 48VDC | 500W | 12m ³ /h | 14m | 2" x 2" | 170W x 4 |

Fountain Pumps

| Code | Voltage | Power | Max Flow Rate | Max Head | I/O Size | Required PV Panels |
|--------------------|---------|-------|----------------------|----------|----------|--------------------|
| TSQB2.0-25-24/120 | 24VDC | 120W | 2.0m ³ /h | 15m | 1" x 1" | 80W x 2 |
| TSSGJ3.2-18-24/120 | 24VDC | 120W | 3.2m ³ /h | 18m | 1" x 1" | 80W x 2 |
| TSQB2.2-37-36/210 | 36VDC | 210W | 2.2m ³ /h | 37m | 1" x 1" | 90W x 2 |

Accessories

- Pump Controller
- Cable Connector
- Cable for Solar Panel
- Brass Impeller
- Water Level Sensor
- Solar Flash Light

DC SUBMERSIBLE PUMPS



Normal Plastic Impeller

| Code | Voltage | Power | Max Flow Rate | Max Head | Pump Size | Required PV Panels | Outlet |
|-----------------------|---------|-------|-----------------------|----------|-----------|--------------------|--------|
| 3TSC-1.9-23-36/210 | 36VDC | 210W | 1.9m ³ /h | 23m | 3" | 90W x 3 | 3/4" |
| 3TSC-2-80-48/500 | 48VDC | 500W | 2.0m ³ /h | 70m | 3" | 140W x 4 | 3/4" |
| 3TSC-3.5-50-48/500 | 48VDC | 500W | 3.5m ³ /h | 34m | 3" | 140W x 4 | 3/4" |
| 4TSC-4-57-48/500 | 48VDC | 500W | 4.0m ³ /h | 57m | 4" | 170W x 4 | 1¼" |
| 4TSC-12.5-44-110/1000 | 110VDC | 1000W | 12.5m ³ /h | 44m | 4" | 100W x 14 | 2" |

Screw Type Impeller

| Code | Voltage | Power | Max Flow Rate | Max Head | Pump Size | Required PV Panels | Outlet |
|-----------------------|---------|-------|-----------------------|----------|-----------|--------------------|--------|
| 3TSS-0.5-28-12/80 | 12VDC | 80W | 0.5m ³ /h | 28m | 3" | 100W x 1 | 3/4" |
| 3TSS-0.76-55-24/120 | 24VDC | 120W | 0.76m ³ /h | 55m | 3" | 90W x 2 | 3/4" |
| 3TSS-1.25-80-36/210 | 36VDC | 210W | 1.25m ³ /h | 90m | 3" | 90W x 3 | 3/4" |
| 4TSS-2.5-70-48/500 | 48VDC | 500W | 2.5m ³ /h | 80m | 4" | 170W x 4 | 1" |
| 4TSS-2.5-140-110/1000 | 110VDC | 1000W | 2.5m ³ /h | 140m | 4" | 140W x 14 | 1" |
| 5TSS-5-80-110/1200 | 110VDC | 1200W | 5m ³ /h | 80m | 5" | 100W x 16 | 1½" |

Applications

- Domestic & Municipal Water Supply
- Irrigation Systems
- Industrial & Mining Applications
- Ponds & Garden Water Supply

Features

- Floating impeller design prevents sand blockages
- Highly durable
- Can handle upthrust load

Accessories

- Liquid Level Sensor
- Torch light
- Water Level Sensor
- Order PV Panels Separately

DC PV PUMP SYSTEM CONTROLLER

Solar Pump System Controllers

| Code | Description |
|--------------|--|
| TSPC-12-24V | 12 - 24VDC Solar Pump System Controller |
| TSPC-36-48V | 36 - 48VDC Solar Pump System Controller |
| TSPC-72-110V | 72 - 110VDC Solar Pump System Controller |

- MPPT and DSP control features provide a stable clean DC to the batteries extending battery life and system reliability
- For use with the above TAIFU Solar Pumping Systems
- Select controller to match system voltage



DEYE SOLAR AIR CONDITIONER



Scan the QR Code to download the Solar Aircon App



100% Eco
Up to 100% saving in daytime



Savings
No Inverter, battery or charge controller needed



Max Efficiency
DC Driven



Grid AC Power Limiter
Limit AC power from 0-300W



Wide Operating Temperature
Temperature range between -10°C - +50°C



Auto AC/DC Balance

Features

- R410a Refrigerant
- Quiet Operation
- AC/DC Auto Blancer
- DC Brushless Permanent Magnetic Fan Motor

WiFi Functionality

- Full control
- Daily & weekly timers
- AC & DC consumption
- History of consumption

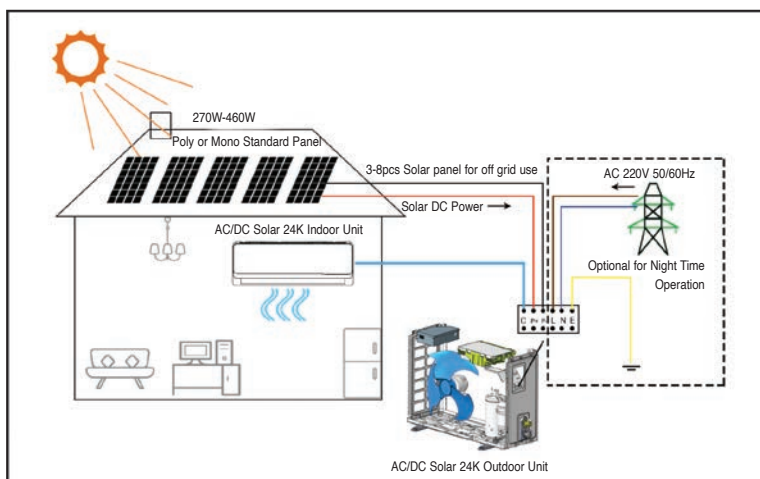
Air Purification

- Filters out Dust, Allergens, Harmful particles

3 Year Warranty



| Code | Unit | DEYE-PVAC-12000BTU | DEYE-PVAC-18000BTU | DEYE-PVAC-24000BTU |
|--------------------------------|----------------|------------------------------------|--------------------------------------|-------------------------------------|
| Power Supply | | | | |
| AC Input | Ph-V-Hz | 1Ph 208V-240VAC/50-60Hz | 1Ph 208V-240VAC/50-60Hz | 1Ph 208V-240VAC/50-60Hz |
| DC Input | VDC | 80-380V | 80-380V | 80-380V |
| Suggested PV Configuration | pcs | (3-4) 330W in series | (3-6) 330W in series | (3-8) 330W in series |
| General Specifications | | | | |
| Rated Cooling Capacity (T1) | W / BTU | 3510(900-3900) / 12000(3000-13300) | 5070(1200-6000) / 17300(4100-20400) | 6450(1800-7900) / 22000(6100-27000) |
| Power Input | W | 940(190-1270) | 1400(220-2100) | 1790(300-3200) |
| Rated Heating Capacity | W / BTU | 4100(1000-4500) / 14000(3000-4500) | 6100(1200-23000) / 20800(4100-23000) | 7800(1800-9100) / 26600(6100-31000) |
| Power Input | W | 1170(190-700) | 1770(220-2500) | 2290(300-3500) |
| Application Area | m ² | 12-20 | 20-30 | 30-42 |
| Indoor Unit Dimension (WxHxD) | mm / kg | 840 x 205 x 295 / 9.0/12.5 | 1080 x 330 x 237 / 15.0/18.5 | 1080 x 330 x 237 / 15.0/18.5 |
| Outdoor Unit Dimension (WxHxD) | mm / kg | 802 x 564 x 323 / 33.5/37.5 | 802 x 564 x 323 / 37/42.0 | 900 x 700 x 337 / 50/54.5 |

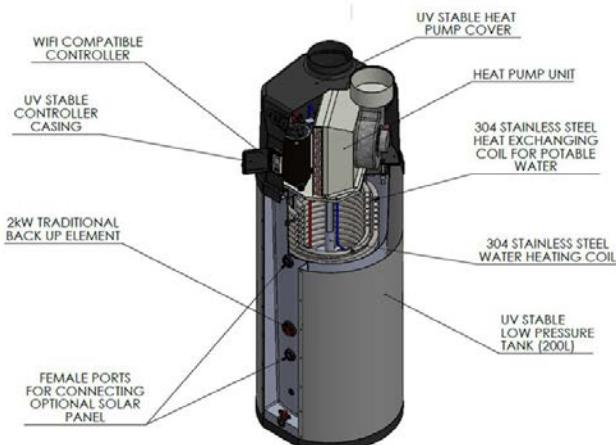


| Kit Includes | QTY |
|--|-----|
| Indoor Unit | 1 |
| Indoor Unit Mounting Plate | 1 |
| Remote Controller | 1 |
| AAA Battery | 2 |
| Connecting Cord 3 Meters | 1 |
| Outdoor Unit | 1 |
| Wrapping Tape Weather protection | 1 |
| Drainpipe 1.5 Meters | 1 |
| Wall Sleeve | 1 |
| Sealant Putty | 1 |
| Installation Manual | 1 |
| MC4 Style Connector Set for Outdoor Unit | 1 |



Energy Efficient Low Pressure Water Heating Solution

| Code | EMS-TH200DT | EMS-TH200DT-NW |
|------------------------------------|---------------------------|----------------|
| Communication | | |
| Protocol | Wi-Fi | No Wi-Fi |
| Heat Pump | | |
| Rated Input Power | 0.765kW | |
| Rated Heating Capacity | 3kW | |
| Rated Current | 3.5A | |
| Element | | |
| Rated Input Power | 2KW | |
| Rated Heating Capacity | 1.8kW | |
| Rated Current | 9.1A | |
| Auxiliary Heater | 2KW | |
| Heat Pump & Element | | |
| Rated Input Power | 2,765 | |
| Rated Heating Capacity | 4.8 kW | |
| Rated Current | 12.6A | |
| Tank | | |
| Water Tank Volume | 220L | |
| Water Inlet/Outlet Connection | 3/4" BSP | |
| Height of Water Inlet & Outlet | 1335mm | |
| Water Heating Coil Pressure Rating | 1000kPa | |
| Water Heating Coil Material | Grade 304 Stainless Steel | |
| Tank Pressure | Atmospheric | |
| Water Max Temperature | 60° | |
| Air Duct Size | 180mm | |
| General | | |
| Power Supply | 220-240V/50Hz | |
| Refrigerant | R-410A | |
| Solar Compatible | Yes | |
| Overall Dimensions (LxBxH) | 798mm x 659mm x 1781mm | |
| Weight | 92kg | |



- Primary heating by heat pump reduces overall energy consumption
- Proprietary Coil Heat Exchanger prevents limescale build up
- Integrated connection points for optional solar panel BACK-UP
- Wi-Fi connectivity for remote monitoring and setting of unit
- 2kW traditional heating element can be used to boost the system in case of high demand or in the unlikely event that the heat pump should fail.

Three heating modes available:

1. Heat pump only
2. Conventional Element only
3. Mixed Mode (Heat pump & Conventional element)

NEW

LOW PRESSURE SOLAR WATER HEATING

Low Pressure Solar Geysers **IPX4**

Complete solar water heaters & accessories. Locally manufactured using 0.7mm 444 grade stainless steel. Direct system with evacuated tubes. Warranty: 5 Years



| Code | Collector | Tank Capacity | Collector Area | Tank Size | Roof Type |
|----------------|-----------|---------------|--------------------|---------------|-----------|
| SRLP-110-ECO-F | 12 Tubes | 110ℓ | 1.97m ² | 1350 x Ø510mm | Flat |
| SRLP-110-ECO-P | 12 Tubes | 110ℓ | 1.97m ² | 1350 x Ø510mm | Pitched |
| SRLP-150-ECO-F | 16 Tubes | 150ℓ | 2.62m ² | 1650 x Ø510mm | Flat |
| SRLP-150-ECO-P | 16 Tubes | 150ℓ | 2.62m ² | 1650 x Ø510mm | Pitched |

Systems Include

- Cistern Tank (Including Float / Ball Valve)
- Main Tank (Including Drain Cock)
- Evacuated Tubes (12 / 16 Tubes)
- Roof Mounting Frame

Systems Exclude

- Plumbing for Cistern to Main
- Home Installation Kit
- Installation

Accessories

| Code | Description |
|--------------|---|
| SRINSTALLKIT | Installation Kit Including: 2 x Ball Lever Valves 4 x Straight Conex 10 x Copper Elbows 1 x Mixing Valve 4 x Male Conex 2 x Vacuum Breakers 10 x Saddles for pipe 1 x Female Conex 3 x Copper Tees 2 x 22mm Copper Pipe (5.5m length) |

SABS SOLAR GEYSER

Low Pressure System

| Code | Collector | Tank Capacity | Collector Area | Tank Length |
|-------------|-----------|---------------|--------------------|-------------|
| SL-NF1.8-16 | 16 Tubes | 100ℓ | 1.67m ² | 1225mm |
| SL-NF1.8-18 | 18 Tubes | 150ℓ | 1.88m ² | 1446mm |

High Pressure System

| Code | Collector | Tank Capacity | Collector Area | Tank Length |
|--------------|-----------|---------------|--------------------|-------------|
| ASHP-1858-10 | 12 Tubes | 100ℓ | 1.68m ² | 805mm |

Accessories

| Code | Description |
|----------------|---|
| SL-NF16-TUBES | Spare Glass Tube for 100ℓ Low Pressure |
| SL-NF18-TUBES | Spare Glass Tube for 150ℓ Low Pressure |
| SL-NF-FTANK | Spare filler tank for 100/150ℓ Low Pressure |
| SL6-C1301BX003 | Mix/Tempering Valve |

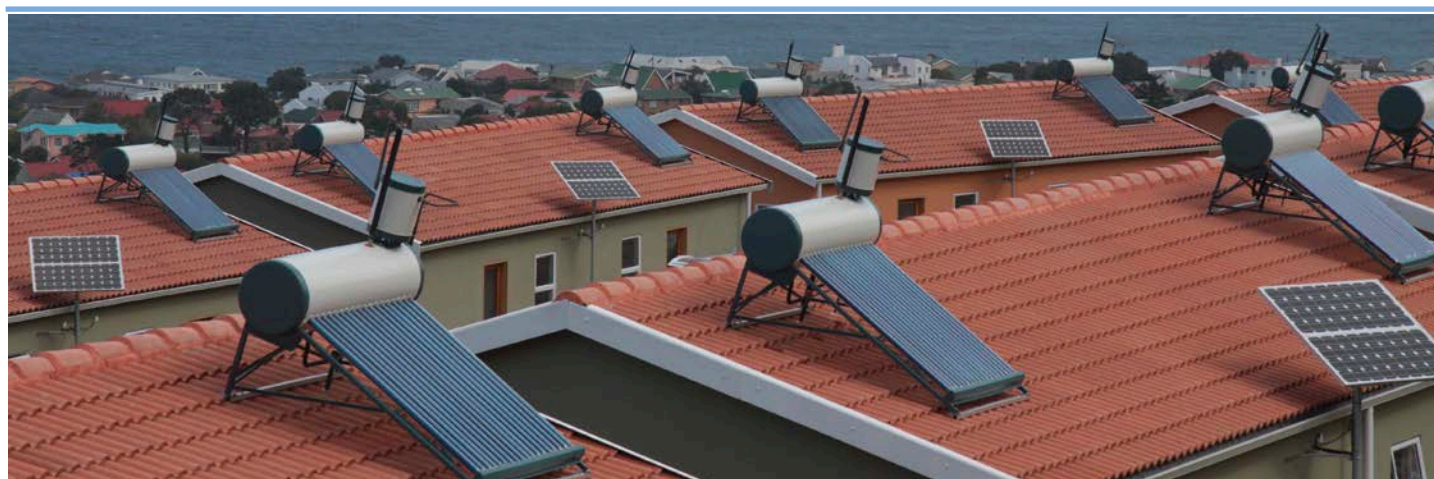
- Inner tank: SUS304-2B (Low Pressure), SUS316 (High Pressure)
- Working pressure: 0.6MPa (High Pressure), 0.1MPa (Low Pressure)
- Vacuum tube: 58*1800mm 2.2mm thickness with special coating to aid absorption
- Frame: Galvanized steel 1.5mm
- Insulation: 50mm of high density polyurethane foam - Heat preservation: 72hrs
- Hail resistance: 40mm

All the prices include tank, heat pipe vacuum tubes, frame, air vent valve, magnesium rod, screws & nuts and carton box only.



SL6-C1301BX003

Note: Order Mixing Valve Separately





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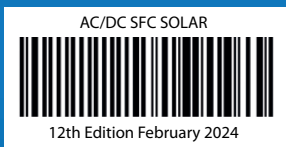
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