



SOLAR

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Harness the power of the sun with our Solar solutions. Our comprehensive range includes high-efficiency solar panels, inverters, and energy storage systems designed to maximize energy production and sustainability. Ideal for residential, commercial, and industrial applications, our solar products offer a reliable and eco-friendly alternative to traditional energy sources.

PORTABLE BACK-UP UNIT



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	

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	



DQ1208A500-1

ACCESSORIES

Ecoboxx Lamp

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

NEW



PP-15/45-BK/R

XT60S-F-W

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

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

NEW

ACCESSORIES



Portable Folding PV Panels

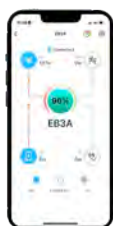
Code	SLP-P60W	SLP-P120W
Voc	23V	23V
Outputs	1 x Anderson: 18V (60W) 1 x USB-A QC: 5-12V (24W) 1 x USB-C PD: 5-15V (18W)	1 x Anderson: 18V (120W) 1 x USB-A QC: 5-12V (24W) 1 x USB-C PD: 5-15V (45W)
Folded Size	360 x 400 x 45mm	520 x 405 x 50mm
Open Size	1370 x 360 x 25mm	1755 x 520 x 25mm

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



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

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



PBU-PS-P100

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 Output	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

NEW

PORTABLE POWER STATIONS



PBU-300W-UPS



PBU-1000W-UPS

• With built-in LED Light



PBU-600W-UPS

Portable Power Station with UPS Function

Code	PBU-300W-UPS	PBU-600W-UPS	PBU-1000W-UPS
AC Outputs			
Rated Power	300W	600W	1000W
Output Voltage	230VAC (Pure Sine wave)	230VAC (Pure Sine wave)	230VAC (Pure Sine wave)
AC Outlets	1 x (3-Pin SA)	3 x (3-Pin SA)	2 x (3-Pin SA)
DC Outputs			
12VDC	12V/8.3A (100W max) Car Charger Socket/ Cigarette output x 1		12V/8.3A (100W max) Car Charger Socket/ Cigarette output x 1 DC 5521 output: 12V/5A x 2
USB Outputs	USB-A: 5V/2.1A x 2 (18W max) USB-C: PD30W x 2	USB-A: 5V/2.4A x 1 & QC18W x 1 USB-C: 5V/2.4A x 1 & PD65W x 1	USB-A: QC3.0/18W x 3 USB-C: PD100W x 1
Charging			
230VAC Adapter	230VAC (120W Charger)	230VAC (200W Charger)	230VAC (200W Charger)
PV Input	12V-30V/10A (110W max)	12V-30V/5A (200W)	12V-30V/12A (400W)
Battery			
Type	LiFePO4	LiFePO4	LiFePO4
Capacity	280Wh	560Wh	999Wh
Cycle Life	≥ 2000 cycles	≥ 2000 cycles	≥ 2000 cycles
General			
Specifications	245 x 220 x 160mm	463 x 289 x 366mm	328 x 221 x 263mm
Physical Dim.	1 x User Manual, 1 x Vehicle Charging Cable 1 x AC Cable		1 x User Manual, 1 x Vehicle & Solar Charging Cable AC Cable
Package Includes			

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	1440Wh	2160Wh
Cycle Life	≥ 2000 cycles	≥ 2000 cycles
General Specifications		
Physical Dim.	463 x 289 x 366mm	407.5 x 289 x 366mm
Package Includes	1 x User Manual, 1 x Vehicle Charging Cable 1 x AC Cable	1 x User Manual, 1 x Vehicle Charging Cable 1 x AC Cable



PBU-1500W/2000W

SOLAR

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			

MOBILE BACK-UP SYSTEMS

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



ESS-3KW-2.56KWH
ESS-3KW-5.12KWH

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

NEW

PORTABLE POWER STATIONS

- Pure Sine Wave
- Compatible with Lithium, Lead-Acid and Gel Batteries.
- Built-In Solar-Charge Controllers.
- Overload/Short Circuit Protection.
- LCD Screen for Parameter Display.
- Easy Access to Battery Compartment.
- **Note: Battery to be ordered separately**



12VDC Trolley Type Power Stations - with UPS Function

Code	BTR-TB-600W 12VDC	BTR-TB-1200W 12VDC
AC Outputs		
Rated Power	600W	1200W
Output Voltage	230VAC 50Hz	
AC Outlets	2 x 3-Pin SA	
DC Outputs		
12VDC	12V/5A Barrel Socket x 4	
USB Outputs	USB-A: 5V/1A x 2	
Charging		
Charger	Built-In 10A/120W	Built-In 30A/360W
PV Input	25VDC/ 256W MAX(PWM)	25VDC/384W MAX(PWM)
Battery		
Type	LiFePO4 / Lead-acid / Gel - 12VDC	
Space for Battery (Not Incl.)	12V/100Ah x 1	
Cycle life	Dependent on battery type installed	
General Specifications		
Physical Dimensions	440 x 220 x 467mm	

24VDC Trolley Type Power Stations - with UPS Function

Code	BTR-TB-2000W 24VDC	BTR-TB-3000W 24VDC
AC Outputs		
Rated Power	2000W	3000W
Output Voltage	230VAC 50Hz	
AC Outlets	2 x 3-Pin SA	
DC Outputs		
12VDC	12V/5A Barrel Socket x 4	
USB Outputs	USB-A: 5V/1A x 2	
Charging		
Charger	Built-In 40A/960W	Built-In 40A/960W
PV Input	50VDC/1280W max (PMW)	130VDC/2048W max (MPPT)
Battery		
Type	LiFePO4 / Lead-Acid / Gel - 24VDC	
Space for Battery (Not Incl.)	24V/100Ah x 1 battery	12V/200Ah x 2 batteries
Cycle life	Dependent on battery type installed	
General Specifications		
Physical Dimensions	592 x 285 x 668mm	640 x 285 x 873mm



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

SOLAR POWERED DEVICES

	Solar Power Bank	Solar Lantern / Power Bank	Solar Lamp Torch	Solar Power Bank	Portable Solar Backpack LED Light
					
Code	WAKA-LX2	SG-MYLAMP	WAKA-L*	WAKA-P*	HHB-GZD
	- 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	- 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.	- Patented Sunboost Technology - Highly Efficient Mono-Crystalline Solar Panel - SOS Beacon 3 Light Levels * Add Body Colour to Code: ●BK (Black) ●Y (Yellow)	- Solar mobile phone or tablet charger with LED light - Large Lithium battery capacity - Water, dust and shock resistant *Add body colour to code: ●BK (Black/Blue), ●Y(Black/Yellow)	- Solar Panel charging / USB charging - LED Brightness adjustable to 3 levels - Hang on backpack to charge on the move - Alarm light - Flashing Blue & Red
Solar Panel	3W	0.5W	1W	1.8W Mono	3.5W/6V
Internal Battery	8000mAh	2200mAh	500mAh	10000mAh	3.7V/4500mAh
LED	45lm, 0.5W LED	120lm 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)	5-8hrs (Solar)	55hrs (Solar) ≥6hrs (USB)	≥ 3hrs (USB) Approx. 15hrs (Solar)
Working Time	58hrs (LED Only)	8hrs 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 Light & Radio
- High Quality PV - Super Bright LED - Rechargeable Battery				
Code	BSS-00107	BSS-00207	BSS-00213	BX-FD016-1F
Battery Type	Lithium	Lithium	Lithium	4500mAh Lead Acid
Battery Life	7hrs full charge	6 / 24hrs full charge	5 / 11 / 66hrs full charge	High 7hrs / Low 22hrs
Lamp Power/Lumen	0.6W / 50lm	1.2 / 0.2W / 110/20lm	0.7W / 45lm	0.9W / 100lm
Accessories	Lamp Holder	Carry Holder, Cell Accessories	Cell Accessories	USB Port with 5 in 1 Charger, FM Radio
	Solar Lamp	2 Solar Lamp Kit	4 Solar Lamp Kit	Solar Home Light
- High Quality PV - Super Bright LED - Rechargeable Battery	Portable 	Portable 	Portable 	
Code	MRD-401	MRD-401/2	MRD-401/4	BSS-00504S
Battery Type	3.7V / 4400mAH Lithium	3.7V / 2000mAH Lithium / Lamp	3.7V / 2000mAH Lithium / Lamp	Lithium
Battery Life	7 - 8hrs Full brightness	3 - 4hrs Full brightness	3 - 4hrs Full brightness	72/18hrs full charge
Lamp Power/Lumen	1.7W / 120lm	1.7W / 120lm per lamp	1.7W / 120lm per lamp	0.6W / 50lm
Accessories	USB Cable, Mini USB	-	-	Cell Accessories

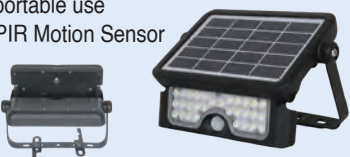
SOLAR DC POWER KITS

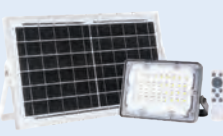
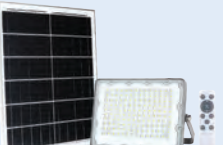
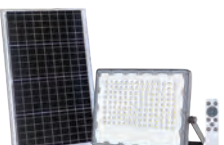
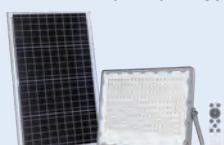
	Solar Junior Light	Solar Home Light 2	Solar Home Light 4	Solar Camping Light	
- High Quality PV - Super Bright LED - Rechargeable Battery		 Spare Lamp- SLL-L1515	 Spare Lamp- SLL-L1515		
Code	BSS-00314LH	BSS-00504LH	BSS-01004LH	RW-SCL-20	
Battery Type	Lithium	Lithium	Lithium	Lithium	
Battery Life	7hrs full charge	8/ 4 hrs full charge	18/ 9 hrs full charge	High 2hrs / Low 6hrs	
Lamp Power/Lumen	1.5W / 120lm	1.5W / 140lm	1.5W / 140lm	1W/80lm 3W/210lm	
Accessories	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		 USB	 • 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

SOLAR SECURITY LIGHTING

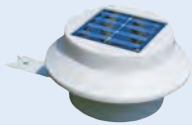
	Flood Light IP44	Courtyard Light IP44	High Power Solar Light IP65	Spot Light IP44
- High Quality PV - Rechargeable Battery - Super Bright LED			 PIR 10m Detection & Timer	
Code	BSSJ12	BSSJ22	BSSDM02	BSSJ09
Battery Type	Lead Acid	Lead Acid	Lithium 3.6V / 24000mAh	Lithium 3.7V / 2000mAh
Battery Life	8hrs (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
- 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

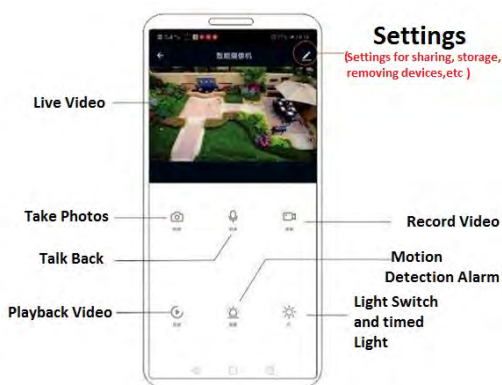
	Multifunction Flood Lights IP65		Multifunction Flood light
- High Quality PV - Rechargeable Battery - Super Bright LED	• Built-in stand for portable use • PIR Motion Sensor 	180° PIR Motion Detection 6 - 8m Range 	NEW 
Code	LD-SFL-5W	LD-SFL-10W	LD-SSL-8W
Battery Type	Lithium 3.7V / 3000mAh	Lithium 7.4V / 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				
- 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	
- 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	
- 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
- 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
- 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

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

- Motion detection alarm, multi-angle adjustable
- Supports SD card (**not included**) & Cloud Storage (**subscription fee to be paid in app**)
- Supports Video Playback function & 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



Subscribe



SOLAR LED BULKHEAD LIGHTS IP54



Solar Bulkheads - 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	6W	8W
Dimensions	Ø238 x 60mm	Ø280 x 64mm

- Remote Control - Time Control
- Dimming
- Colour Temperature
- c/w 5m cable for PV panel
- Working Time 10-12hrs (fully charged)

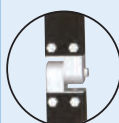
SOLAR LIGHTING ACCESSORIES

For use with light weight street lights

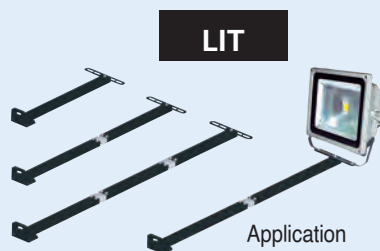
NEW



Powder coated black.
Light fitting excluded.



Joints can rotate through 270°



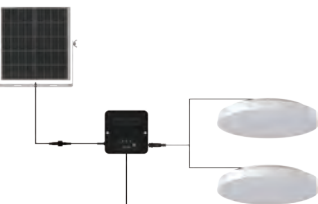
Code	ST-BR-POLE	ST-BR-WALL	Code	JM-ZJ-01	JM-ZJ-02	JM-ZJ-03
Description	Pole mount for Light Weight Street Lights	Wall mount for Light Weight Street Lights	Description	600mm fixed arm	1200mm hinged arm (2 x 600mm)	1800mm hinged arm (3 x 600mm)
Spigot Size	Ø50mm	Ø50mm	Max Fitting Weight	32kg	14kg	14kg

NEW

SOLAR ENERGY STORAGE LED LIGHTS

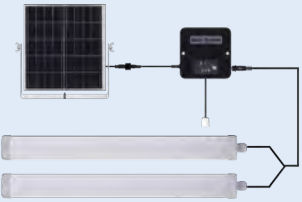
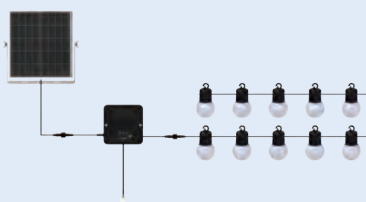
- Pull Switch for working modes:
- * Low Light: 6-8 Hrs
- * High Light: 3-4 Hrs
- * Auto: Day and Night Switching

Optional Remote Control

Solar Ceiling Lights IP54			
			
Code	RW-SCL-220	RW-SCL-300	RW-SCL-220/2
LED Wattage	6W	9W	6W x 2
LED Lumens	750 lm	1100 lm	750 lm x 2
Battery	6Ah 3.7V	9Ah 3.7V	12Ah 3.7V
Kit Includes:	Ceiling Light: Ø220mm Energy Box: 96*96*31mm Solar Panel: 6W,6V PV Input Power Cord: 5m Output Power Cord: 3m	Ceiling Light: Ø300mm Energy Box: 120*120*31mm Solar Panel: 12W,6V PV Input Power Cord: 5m Output Power Cord: 3m	Ceiling Lights: Ø220mm x 2 Energy Box: 120*120*31mm Solar Panel: 15W,6V PV Input Power Cord: 5m Output Power Cord: 3m x 2

- Pull Switch for working modes:
- * Low Light: 6-8 Hrs
- * High Light: 3-4 Hrs
- * Auto: Day and Night Switching

Optional Remote Control

Solar LED Linear Lights IP54			
			
Code	RW-STL-0.6M/2	RW-SSL-5M	RW-STRING-5M
LED Wattage	6W x 2	3W	3W
LED Lumens	550 lm x 2	150 lm/5m	10lm x 10
Battery	12Ah 3.7V	2Ah 3.7V	2Ah 3.7V
Kit Includes:	Linear Light: Ø590mm x 2 Energy Box: 120*120*31mm Solar Panel: 15W,6V PV Input Power Cord: 5m Output Power Cord: 3m x 2	Strip Light: 5m Energy Box: 78*78*28mm Solar Panel: 3W,6V PV Input Power Cord: 5m Output Power Cord: 2.5m	String Light: 5m (10 LED bulbs) Energy Box: 78*78*28mm Solar Panel: 3W,6V PV Input Power Cord: 5m Output Power Cord: 2.5m

Accessories

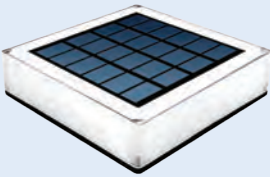
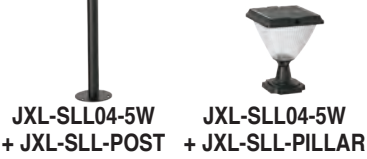
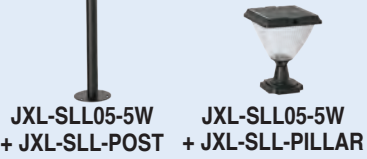
				
Code	RW-KIT-USB	RW-KIT-IC	RW-KIT-OC	RW-KIT-RC
Description	Charging Cable With Connector (0.8 Meters)	PV Input Extension Cable With Connector (5 Meters)	Output Extension With Connector (Meters)	Optional Remote Control

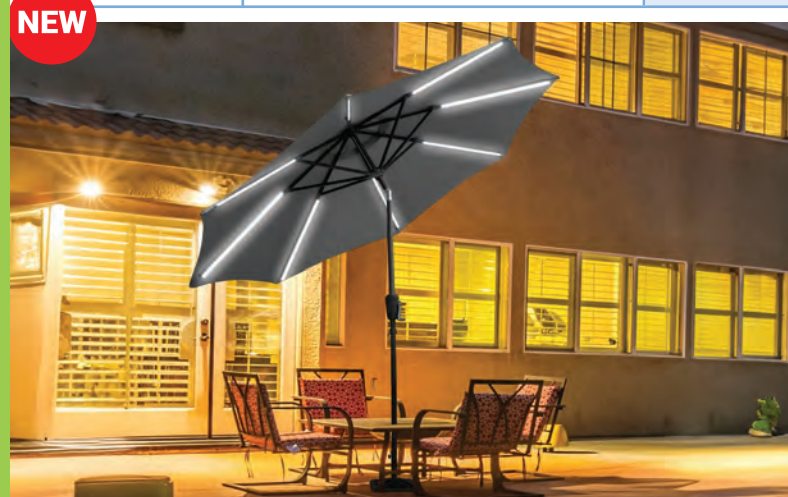
DC APPLIANCES

	12VDC Fan	Solar Floor Standing Fan	Solar Desk Fan
			
Code	SF-D6609	SF-FLOOR-15W	SF-DESK-15W
Power	10W / 12VDC	15W / 4400mAh	15W / 4400mAh
PV Panel	-	12W Polycrystalline	12W Polycrystalline
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 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	
		 JXL-SLL04-5W + JXL-SLL-WALL	 JXL-SLL05-5W + JXL-SLL-WALL
		 JXL-SLL04-5W + JXL-SLL-POST	 JXL-SLL05-5W + JXL-SLL-POST
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/500lm	5W/500lm
PV Panel	1.5W Polycrystalline	5W Monocrystalline	5W Polycrystalline
Protection Rating	IP65	IP65	IP65
Features	CCT Adjustable - 3000/4000/6000K Size: 130 x 130 x 40mm	CCT Adjustable - 3000/4000/6000K	CCT Adjustable - 3000/4000/6000K
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 Multifunction Umbrella

Code	Description
GH-52368A02	Size: +/- 2,8m x 2,4mm (H) Battery: 31200mAh USB Output: 5V 2.VAA LED: Warm White Input: 12VDC 2A
- Built-in LED Lighting - Built-in Bluetooth Speaker - Charge your devices using the built-in USB	

LED SOLAR LAMPS

Solar Garden Spike IP44

• Batteries Included • Height does not include spike						
	Code	RW-SF-03-2	RW-SF-03-4	RW-SLS004	E2009	CON-SOLAR
	Size (mm)	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	4 x LED
	Batteries	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh	2x1.2V 600mAh AAA
Material	Plastic	Plastic	Stainless Steel	Stainless Steel	Glass	

Solar Garden Spike IP44

Flame Effect Torch Spike IP65

• Batteries Included • Height does not include spike	Solar Garden Spike 4.5cm			Flame Effect Garden Spike 10cm		
				3in1 With Mosquito Repeller Lawn & Table Light 		
	Code	RW-SLS002	RW-SLS003	SDBX115	SL-04M	BF-SGL-1W
	Size (mm)	480H x 170Ø	365H x 125Ø	420H x 170Ø	510(H) x 110Ø	1000H x 137Ø
	Type	1 x LED	1 x LED	1 x LED	1 x LED	Flame Effect LED 1W
Batteries	1 x NiMh 600mAh	1 x NiMh 600mAh	1 x NiMh 600mAh	Li-ion Battery 450mAh	1 x LiPO 2000mAh	
Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel	Lithium	

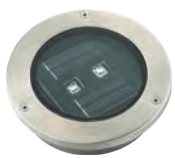
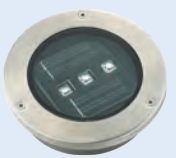
3in1

With Mosquito Repeller
Lawn & Table Light

Stainless Steel In-ground Series IP44

In-Ground IP68

Paving Lamp IP44

Batteries Included						
Code	RW2LED-120	RW3LED-120	SDDM002	SDDM002-2	ZH-03-W	RW-SLR001
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

Plastic Floating Lamps IP67

Plastic Spot Lamp IP67

Solar Wall Light IP44

Solar Post Tops IP44

			• 6-8 Hours Normal Brightness • Aluminium Body & Glass Lamp / Shade • Auto Turn On / Off Dusk & Dawn		
Code	RW-SLB003	RW-SLB002	Code	JY-0007-A	JY-0007-D
Size (mm)	120Ø	160Ø	Wattage	3W	3W
Type	2 x LED	2 x LED	Lumens	130lm	220lm
Batteries	1 x NiMh 600mAh	1 x NiMh 600mAh	Size	Ø260 x 400	Ø260 x 1750

ALL-IN-ONE SOLAR POST-TOP LIGHT

- Note:**
Pole not included
 • Easy Installation
 • No cabling required
 • Working Time: up to 12 hrs dependant on work mode
 • Endurance: 2-3 Rainy Days



NEW



NEW



NEW



NEW

Code	05SL-SUNRAY-R30W	RW-S07A2-150W-CCT	RW-S07A2-250W-CCT	RW-S07F-600W-CCT
Solar Panel	25W Monocrystalline	12W Monocrystalline	20W Monocrystalline	25W Monocrystalline
LED Power/Lumen	20W/2000lm	6W/650lm	10W/1050lm	12W/1250lm
Colour Temperature	6000-6500K	Adjustable - 3000/4000/6000K	Adjustable - 3000/4000/6000K	Adjustable - 3000/4000/6000K
Battery	3.2V /25Ah	3.2V,15Ah	3.2V,20Ah	3.2V,25Ah
Function	Day/Night Automatic+ Time Control+Remote Control	Day/Night Automatic+ Time Control+Remote Control	Day/Night Automatic+ Time Control+Remote Control	Day/Night Automatic+ Time Control+Remote Control
Size	Ø610 x 189mm	Ø420 x 125mm	Ø550 x 125mm	Ø610 x 95mm

Note: Pole not included



NEW

Solar Street / Post Top Light IP66

Code	EL-UBTA-40
Solar Panel	70W Monocrystalline
LED Power	40W/6800lm
Colour Temperature	5000k
Battery	12.8V /18AH LiFePO4
Control Mode	Time Control + PIR
Working Time	± 12hrs
Size - L x W x D (mm)	905 x 520 x 275

Features

- Auto on/off daylight sensor
- Easy to install and maintain
- Off-grid road-way lighting
- No trenching or cabling work
- Environment friendly

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

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

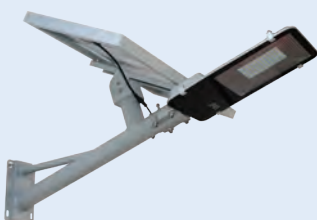


ST-S120

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



Code	LL-407	LL-603
LED Power	104W	50W
Lumen Bright Mode	1560lm	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

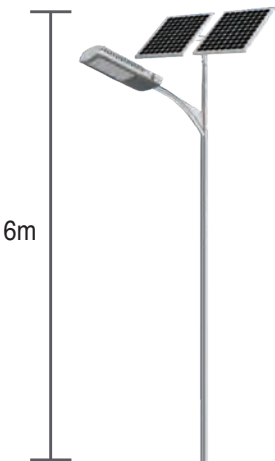
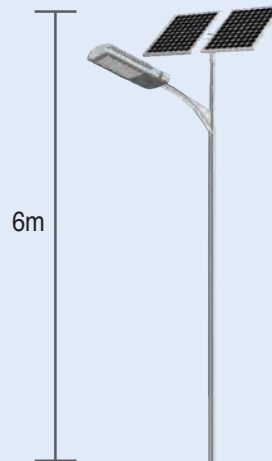
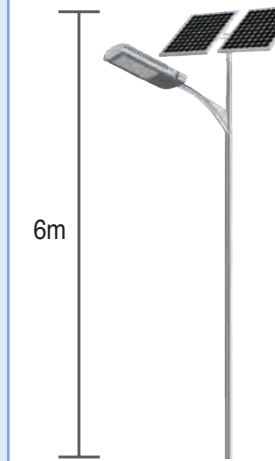
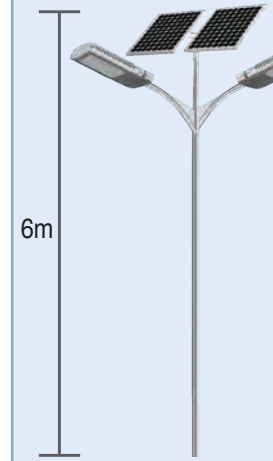
- c/w Remote Control to control Light Output & Timing Functions

• **Note: Pole not included**

PROJECT SOLAR STREET LAMPS IP65

SSL-0310 Range - All-in-One				SSL-0278 Range - All-in-One			
3 Year Warranty							
	Code	SSL-0310B40	SSL-0310C60	SSL-0310D100	SSL-0278B200	SSL-0278C300	SSL-0278D400
	Solar Panel	38W Mono	48W Mono	64W Mono	88W Mono	100W Mono	130W Mono
	LED Power/Lumen	40W/3072lm	60W/4096lm	100W/7168lm	200W/10922lm	300W/13653lm	400W/16384lm
	Battery	12.8V/18Ah	12.8V/24Ah	12.8V/42Ah	12.8V /64Ah	12.8V/80Ah	12.8V/96Ah
Working Mode	Time Control: 100% for 1hr 70% for 2hrs 50% for 2hrs 30% Till Dawn			3 Working Modes: ① 100% Constant Lighting ② 70% Constant Lighting ③ 100% Brightness when motion detected			
Working Time	20-24Hrs	20-24Hrs	20-24Hrs	20-24Hrs	20-24Hrs	20-24Hrs	
Installation Height	4-6m	5-7m	6-9m	5-7m	6-8m	8-10m	
Size - LxWxD	740 x 340 x 82mm	860 x 340 x 82mm	980 x 360 x 125mm	1207 x 358 x 303mm	1487 x 358 x 303mm	1800 x 400 x 303mm	
Features • Colour Temperature: 6000K • Working Time is Estimated and will be affected by local conditions • Aluminium Housing • Note: Pole not included				Features • Colour Temperature: 6000K • Working Time is Estimated and will be affected by local conditions • Aluminium Housing • Note: Pole not included			

Solar Street Lights with Pole IP65

Note: Supplied without batteries. Batteries to be ordered separately. 	 6m	 6m	 6m	 6m	
	Code	SL-30W	SL-60W	SL-90W	SL-90W-2
	Light Source	30W/2700lm	60W/5400lm	90W/10500lm	2 x 90W/10500lm
	Solar Panels	40W*2pcs Mono Crystalline	80W*2pcs Mono Crystalline	120W*2pcs Mono Crystalline	240W*2pcs Mono Crystalline
	Battery (not incl.)	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	

- Colour Temp: 6500K (Daylight)
- Housing material: Tempered glass and Die-cast Aluminium
- Battery Box: Underground PVC Plastic
- Pole Included: 6m, Steel, Hot dip Galvanised
- Working time: 8hrs per day
- Max Endurance: 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	550 x 310 x 17mm
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
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	1240 x 675 x 35mm
SLP120-12	120W	18.81V	6.38A	22.58V	7.02A	1250 x 678 x 35mm
SLP140-12	140W	18.90V	7.41A	22.68V	8.00A	975 x 770 x 30mm
SLP270-24	270W	31.1V	8.69A	38.4V	9.06A	1650 x 992 x 35mm

Monocrystalline PV Modules

SLP370S-24	370W	34.60V	10.70A	41.60V	11.30A	1756 x 1039 x 35mm
SLP420S-24	420W	38.40V	10.94A	45.50V	11.66A	1925 x 1038 x 35mm

Mechanical Characteristics

Solar Cells: Multicrystalline or Monocrystalline Solar cells

Construction: Front High-Transmission 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



NEW

TIER-1 PV MODULES

Mono PERC P-Type Tier-1 PV Modules

Code	No. of Cells	Brand*
T1-SLP-110-545-M-TRINA	110	Trina Solar
T1-SLP-110-550-M-TRINA	110	Trina Solar
T1-SLP-120-455-M-CAN	120	Canadian Solar
T1-SLP-120-460-M-CAN	120	Canadian Solar
T1-SLP-120-600-M-RIS	120	Risen
T1-SLP-132-660-M-TRINA	132	Trina Solar
T1-SLP-144-425-TRINA	144	Trina Solar
T1-SLP-144-460-M-JA	144	JA Solar
T1-SLP-144-540-M-*	144	*CAN(Canadian) / RIS(Risen)
T1-SLP-144-545-M-*	144	*AST(Astro Energy) / JA
T1-SLP-144-550-M-*	144	*AST(Astro Energy) / CAN (Canadian Solar) / JA, SP(Sunpro) / Trina / RIS(Risen)
T1-SLP-144-555-M-JINKO	144	Jinko Solar
T1-SLP-144-575-M-TRINA	144	Trina Solar
T1-SLP-156-595-M-JA	156	JA Solar

Mono PERC P-Type Tier-1 PV Modules - Black frame

T1-SLP-144-425-BK-TRINA	144	Trina Solar
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Mono TOPCON N-type Tier-1 PV Modules

T1-SLP-144-585-NTP-SP	144	Sunpro
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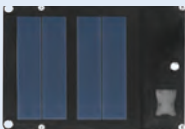


NEW
TOPCON
N-TYPE

*Brands and specifications are subject to change based on availability.

For detailed specifications and stock availability please see the ACDC Dynamics website

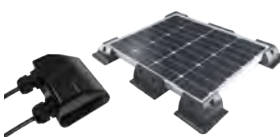
FOLDABLE / FLEXIBLE SOLAR PANELS

	Foldable		Foldable		Semi-Rigid	
Code	SHB-10W		SHB-20W		SLP10F-12A	
Max Power	10W		20W		10W	
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	
Code	SLP30F-12A		SLP40F-12A		SLP50F-12A	
Max Power	30W		40W		50W	
Open Voltage (Voc)	22.5V		22.5V		22.5V	
Short Circuit Current	1.92A		2.47A		3.02A	
Size	650 x 333 x 17mm		775 x 333 x 17mm		690 x 500 x 17mm	

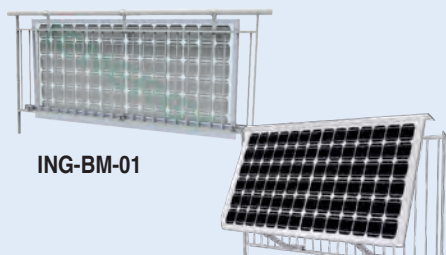
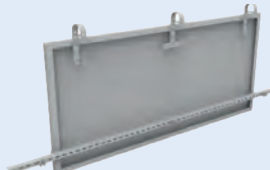
NEW

OFF-GRID SOLAR MOUNTING KITS

ABS Solar Panel Mounting Kits - UV Resistant

				
Code	ING-ABS-5PC/W	ING-ABS-5PC/B	ING-ABS-7PC/W	ING-ABS-7PC/B
Description	5 Piece Kit - White	5 Piece Kit - Black	7 Piece Kit - White	7 Piece Kit - Black
Application	Solar Panel Mounting on Boats, Flat Roofs, Caravans, Motor homes, etc			

Balcony Solar Panel Mounting Kits

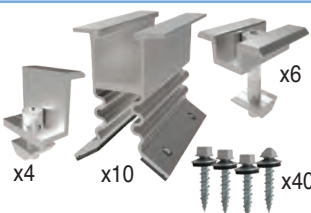
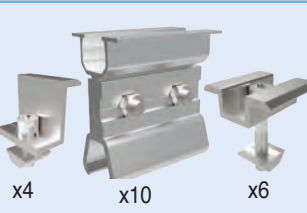
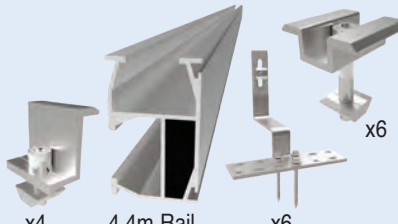
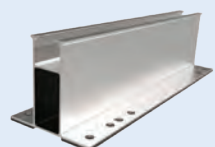
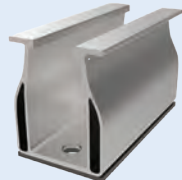
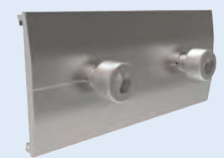
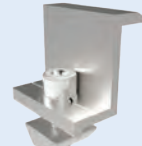
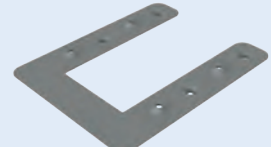
		
ING-BM-01	ING-BM-01	ING-BM-02
Code	ING-BM-01	
Description	Stainless steel (SS304) vertical balcony mounting kit for 1 Panel	
Code	ING-BM-02	
Description	Stainless steel (SS304) angled balcony mounting kit for 1 Panel	

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

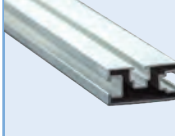
	 	 	 
Code	SLB-0112	SLB-0102	SLB-0103
Module Frame	30/35mm	35mm	35mm
Module Power	10 - 30W	40 - 135W	40 - 135W
Mounting Type	Pole - Adjustable	Fixed Bracket	Flat Surface Adjustable

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.

NEW PV MOUNTING KITS & ACCESSORIES

	4 Panel Corrugated Roof Kit		4 Panel IBR Roof Kit		4 Panel IBR Roof Kit		4 Panel Klip-Lok/Saflok Roof Kit	
								
Code	LM-4PKIT-COR-L		LM-4PKIT-IBR-L		LM-4PKIT-IBR-P		LM-4PKIT-KL-L	
Type	Short Rail		Short Rail		Short Rail		Short Rail	
Panel Orientation	Landscape		Landscape		Portrait		Landscape	
	4 Panel Tile Roof Kit for 1m Width			4 Panel Tile Roof Kit for 1.1m Width			4 Panel Tile Roof Kit for 1.3m Width	
								
Code	LM-4PKIT-TILE-P			LM-4PKIT-TILE-P-5.4			LM-4PKIT-TILE-P-6.2	
Type	Long Rail			Long Rail			Long Rail (for 4 x 1.3m Wide Panels)	
Panel Orientation	Portrait			Portrait			Portrait	
	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 H48 x 100mm 3xM6 Holes c/w EPDM	PV Mounting Hex Head Self Piercing Screw Class 4			
	Long Rails				Rail Splice			
								
Code	LM-R46-4400	LM-R46-5450	LM-R46-6200	LM-RS-I-R48	LM-RS-R-R42			
Desc.	PV Mounting Rail 46x4400mm	PV mounting Rail 46 x 5450mm	PV mounting Rail 46 x 6200mm	Rail Splice Internal – 150mm	Rail Splice Rear			
	Tile Roof Hook		Panel Fixing Clamps			Square Grounding Washer		
								
Code	LM-RH-S-HDG		LM-EC35-RNW		LM-IC35-GP1-RNW		LM-SGW	
Desc.	Tile Roof Bracket c/w Screws HDG		End Clamp for 35mm Framed Panels		Middle Clamp for 31-41mm Framed Panels		Square Grounding Washer – SUS304	

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

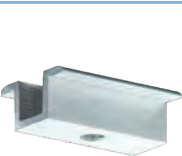


VEPSS-01

Earthing plate for grounding of Solar Panels. Stainless Steel.

Solar Panel Clamps

Material:
Aluminium Alloy
6063 T6
Caps Screws &
Nuts to be ordered
separately

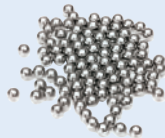
					
VFMC-04	VFEC-04*	VDGMC-04-100	VDGEC-04-100	VDGMC-04-130	VDGEC-04-130
Middle Clamp U-Bracket 50mm length 26g	End Clamp Z-Bracket 50mm length 26g	Middle Clamp for double glass panels 100mm length 147g	End Clamp for double glass panels 100mm length 114g	Middle clamp for double glass panels 130mm Length 147g	End clamp for double glass panels 130mm Length 114g
Securing framed PV panels to aluminium profiles in the middle of a row	Securing framed PV pan- els 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

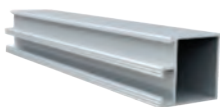
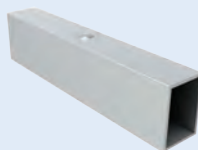
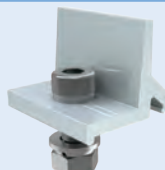
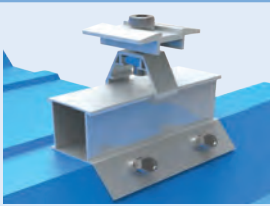
	For Brackets & Uprights	For Brackets & Uprights	For Brackets & Uprights	For Panel Clamps	For Panel Clamps		
Retail Pack							
	SS304	SS304	SS316	SS304	SS316	SS304	SS304
Code	SSBOLTM8-20*	SSBOLTM8-55*	SSNUTM8-HEX*	SSCAPM8-*	SSNUTM8-SQ*	SSFWM8*	SSSWM8*
Description	Stainless Steel Bolt M8 x 20	Stainless 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

For retail pack, add to code: */5 */10

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

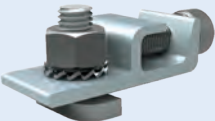
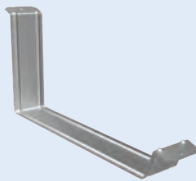
						
Code	VSSBAT/50	AC700	AC101	VCB-35	VRN-M8	VRN-TOOL
Description	Stainless Steel Anti-theft Balls for Cap Screws	Butyl Tape 8 x 3mm x 15m	Butyl Tape 48 x 2.5 x 500mm	Concrete Ballast with mounting stud	M8 Rivet Nut	Rivet Nut Tool Manual Crimping M4 - M8
Mass	-	-	-	35kg	5g	-
Application	Placed in cap screws 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

PV MOUNTING KITS AND ACCESSORIES

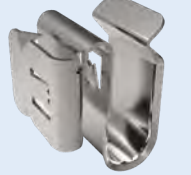
	Profile/Infrit Rail	Rail Splice	PV Panel Clamps		
					
Code	CK-FT-R518B1-4800	CK-618-1-150	CK-FT-AM	CK-FT-AE	
Desc.	Solar Standard Rail 4800mm	Solar Standard Rail Splice kit	Solar Adjustable Mid Clamp 30-40mm	Solar Adjustable End Clamp 30-45mm	
Non-Penetrating Roof Clamps			Tile Roof Brackets		
					
Code	CK-FTS-410R518	CK-FTS-391-1-100	CK-621FTH-40	CK-FTH-01	CK-FTS-385
Desc.	Tin Roof aluminium clamp, 100mm with EPDM pad	Solar aluminium clamp for Kliplok roof	Solar Standard Rail fix Clamp	Solar SUS304 Tile Roof Hook	Aluminium Adjustable Tile Roof Hook
Penetrating Roof Hooks					
					
Code	CK-FTS-202-RT4-7C200-48	CK-FTS-202-RT4-7B200-48	CK-FTS-202RT4-1	CK-FTS-395-T4-2	
Desc.	Hanger bolt 200mm with Aluminium Plate and fix kit for steel purlin	Hanger bolt 200mm with fix kit for wooden rafter	Solar Aluminium Tin Roof Hook with EPDM pad	Aluminium clamp with L Bracket T bolt and 4 screws	
Mini Rail For IBR					
					
Code	CK-FTS-012-150	CK-FTS-024-74-400	CK-FTS-381-1-100		
Desc.	Mini rail 150mm, with EPDM pad (Along Rib)	Mini rail 400mm, 60mm height with EPDM pad (Across Rib)	Mini Rail 100mm with EPDM & Screws		
Tilted Installation Brackets					
					
Code	CK-FTS-FL	CK-FTS-BL200	CK-FTS-BL340	CK-FTS-BL500	
Desc.	Adjustable Front Leg with 2 x screws, T bolt set and EPDM pad.	Adjustable Rear Leg 10-15° with 2 x screws, T-Bolt set and EPDM pad	Adjustable Rear Leg 15-30° with 2 x screws, T-Bolt set and EPDM pad	Adjustable Rear Leg 30-40° with 2 x screws, T-Bolt set and EPDM pad	
* Tilt angle when used with 1.1m wide PV Panel					

NEW

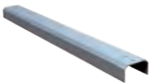
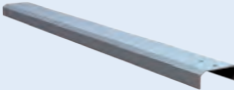
PV MOUNTING KITS AND ACCESSORIES

	Grounding Accessories		T-Bolt	Ballast Mount	Mounting Hardware	
						
Code	CK-GTC-R3G	CK-GTC-R2	T-BOLT-T4-25	CK-BT31	CK-TM-1530	CK-2V-3035
Desc.	Grounding Clip For Mid Clamps	Grounding Lug with T-Bolt	T-Bolt and nut	Ballast Mounting 1134mm Width Panel 30° Bolt & Nut	Adjustable Tri Structure 15 - 30°	2V Ground Support 30/35°

PV Cable Clips

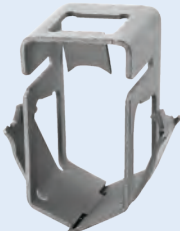
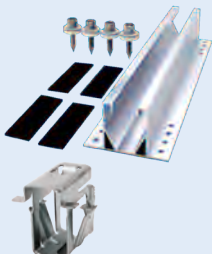
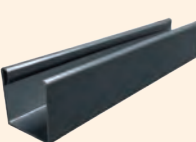
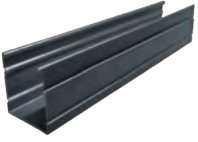
						
	CK-FSC-CP1	CK-FSC-CP2	CK-FSC-CP3	CK-FSC-CP4	CK-FSC-CP5	CK-FSC-CP6
	PV Cable Clips to hold one or two 2.5mm ² solar cables.	PV Cable Clips to hold one or two 4.0mm ² solar cables.	PV Cable Clips to hold one or two 6.0mm ² solar cables.	PV Cable Clips 90/180 degrees to hold one or two 4.0mm ² solar cables.	PV Cable Clips 90/180 degrees to hold one or two 6.0mm ² solar cables.	PV Cable Clips to hold 3 cables/6mm ² or 4cables/4mm ² .

BT21-Ballast Mounting System for 1186mm Wide Panels

					
Code	CK-BL-111-1186-30-75	CK-BT-BSP-1	CK-BT-BSK400	CK-BT-BSK600	CK-ER-039-1186-30
Desc.	Ballast racking 30° Support Base	Ballast carrier	Support Base splice kit 400mm For Dual Orientation	Support Base splice kit 600mm For Single Orientation	Side Windshield

NEW

SOLAR MOUNTING STRUCTURES

	Anti-Theft Mounting Kit				Galvanized Steel Trunking	
						
Code	ING-SPF-01	ING-SPF-02	ING-SPR-2PKIT-IBR-P	ING-SPR-4PKIT-IBR-P	P1000/5	P2000/5
Desc.	Snap Anti-theft Clip (Large)	Snap Anti-theft Clip (Small)	Anti-theft fast-install Mounting Kit for 2 solar panels.	Anti-theft fast-install Mounting Kit for 4 solar panels.	Steel Trunking (41X41mm) 2.5mm thickness.	Steel Trunking (41X41mm) 1.6mm thickness.
Kit Includes	1 Pc	1 Pc	6 x Mini rail 8 x Anti- Theft Clip	10 x Mini rail 16 x Anti- Theft Clip	1 x 5m Length	1 x 5m Length

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

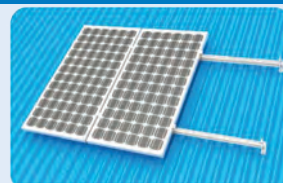
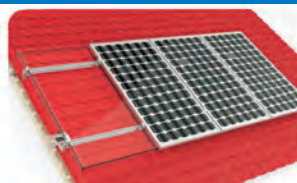
PANEL MOUNTING KITS

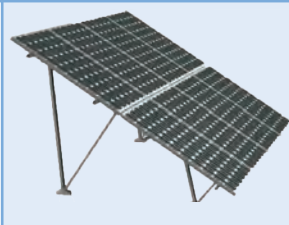
Kits Includes

- Frame Work & Clamps
- Bolts & Nuts for structure
- Aluminium Profile 4.2m
- Suited for 170 - 290W



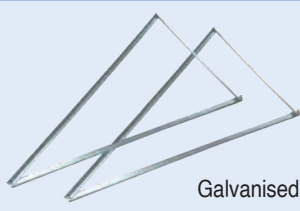
Supplied without Pole



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
		 Ballast to be ordered separately		
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	8 Panel Utility Ground Mounting Kit	8 Panel Ground Mounting Kit



Galvanised



Galvanised

Pre-Assembled Pole Bracket

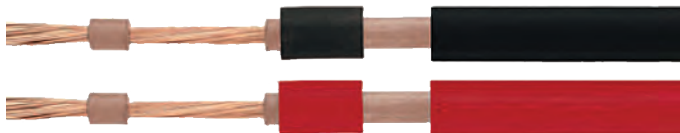
Watts	1 Panel	2 Panel
20W	DM120	—
50 - 85W	DM175	DM275

Triangle Bracket Set

20 - 85W	—	DR275
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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

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/PINM1/10
PV-ST01/M2*	4 - 6mm ²	5.6 - 6.9	PV-ST01/PINM2/10
PV-ST01/M3	10mm ²	6.9 - 8.7	PV-ST01/PINM3/10

* For pack of 50 add /50 to code

PV MC4 Female Coupling Connector



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

* For pack of 50 add /50 to code

NEW

PV MC4 Male Panel Mounting Connector



Code	Cable Size	Spare Pin
PV-PM01/M1*	2.5 - 4mm ²	PV-ST01/PINM1/10
PV-PM01/M2*	4 - 6mm ²	PV-ST01/PINM2/10

NEW

PV MC4 Female Panel Mounting Connector



Code	Cable Size	Spare Pin
PV-PM01/F1	2.5 - 4mm ²	PV-ST01/PINF1/10
PV-PM01/F2	4 - 6mm ²	PV-ST01/PINF2/10



PV MC4 Coupling Connector Kits

Code	Description	Qty / Pack
PV-ST01/F1+M1/2	2.5 - 4mm ² Male+Female	2 Sets
PV-ST01/F2+M2/2	4-6mm ² Male+Female	2 Sets

NEW

NEW

Water Proofing Plugs for MC4



Male



Female

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 Casing: PC/PA

NEW

PV MC4 Inline Fuse Holder



SY-CF4A

SY-CF0-15

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

NEW

PV MC4 Inline Diode



Anode Cathode

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

Rated Voltage: 1000VDC

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-1O	STRB-600V-1I-1O-2	STRB-600V-1I-1O-1+2	600V	1:1
STRB-600V-2I-1O	STRB-600V-2I-1O-2	STRB-600V-2I-1O-1+2		2:1
STRB-600V-4I-1O	STRB-600V-4I-1O-2	STRB-600V-4I-1O-1+2		4:1
STRB-600V-6I-1O	STRB-600V-6I-1O-2	STRB-600V-6I-1O-1+2		6:1
STRB-600V-8I-1O	STRB-600V-8I-1O-2	STRB-600V-8I-1O-1+2		8:1
STRB-600V-12I-1O	STRB-600V-12I-1O-2	STRB-600V-12I-1O-1+2		12:1
STRB-600V-16I-1O	STRB-600V-16I-1O-2	STRB-600V-16I-1O-1+2	1000V	16:1
STRB-1000V-1I-1O	STRB-1000V-1I-1O-2	STRB-1000V-1I-1O-1+2		1:1
STRB-1000V-2I-1O	STRB-1000V-2I-1O-2	STRB-1000V-2I-1O-1+2		2:1
STRB-1000V-4I-1O	STRB-1000V-4I-1O-2	STRB-1000V-4I-1O-1+2		4:1
STRB-1000V-6I-1O	STRB-1000V-6I-1O-2	STRB-1000V-6I-1O-1+2		6:1
STRB-1000V-8I-1O	STRB-1000V-8I-1O-2	STRB-1000V-8I-1O-1+2		8:1
STRB-1000V-12I-1O	STRB-1000V-12I-1O-2	STR-1000V-12I-1O-1+2		12:1
STRB-1000V-16I-1O	STRB-1000V-16I-1O-2	STR-1000V-16I-1O-1+2		16:1

Protection: Fused, Iso, SPD or NON-SPD

String Boxes with Multiple Inputs and Outputs

STRB-600V-2I-2O	STRB-600V-2I-2O-2	STRB-600V-2I-2O-1+2	600V	2:2
STRB-600V-4I-2O	STRB-600V-4I-2O-2	STRB-600V-4I-2O-1+2		4:2
STRB-600V-4I-4O	STRB-600V-4I-4O-2	STRB-600V-4I-4O-1+2		4:4
STRB-600V-6I-2O	STRB-600V-6I-2O-2	STRB-600V-6I-2O-1+2		6:2
STRB-600V-6I-6O	STRB-600V-6I-6O-2	STRB-600V-6I-6O-1+2		6:6
STRB-1000V-2I-2O	STRB-1000V-2I-2O-2	STRB-1000V-2I-2O-1+2	1000V	2:2
STRB-1000V-4I-2O	STRB-1000V-4I-2O-2	STRB-1000V-4I-2O-1+2		4:2
STRB-1000V-4I-4O	STRB-1000V-4I-4O-2	STRB-1000V-4I-4O-1+2		4:4
STRB-1000V-6I-2O	STRB-1000V-6I-2O-2	STRB-1000V-6I-2O-1+2		6:2
STRB-1000V-6I-6O	STRB-1000V-6I-6O-2	STRB-1000V-6I-6O-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



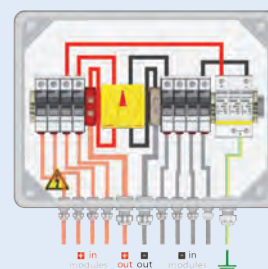
STRBD-02

PV JUNCTION BOXES

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

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 arrestor
- With function or arrestor failure alarm
- Including RS 232/485 Communication interface

Note: Incl. DIN mount 24VDC 1.25A Power Supply

Note: For PV surge protection devices and fuses

see page 36-38

NEW

AC COMBINER BOXES

AC Combiner for Residential Applications



AC-COMBINER-5K



AC-COMBINER-8K

Code	Application	Input Protection	Output Protection	Surge Protection	Maintenance Bypass	Enclosure
AC-COMBINER-5K	Up to 5kw Off-grid or Hybrid Inverters	40A 2P MCB	63A 2P ELCB 20 1P MCB 16A 1P MCB	1P+N Class 2	2P 40A C/O	12-Way surface DB Plastic
AC-COMBINER-8K	Up to 8kw Off-grid or Hybrid Inverters	63A 2P MCB	63A 2P ELCB 20 1P MCB 2 x 16A 1P MCB	1P+N Class 2	2P 63A C/O	12-Way surface DB Plastic

AC Combiner for Commercial Systems



AC-COMBINER-50K

Code	Application	Input Protection	Output Protection	Surge Protection	Maintenance Bypass	Enclosure
AC-COMBINER-50K-1	Deye HV inverters up 50kw	125A 4P MCCB	80A 4P MCB	N/A	125A 4P C/O	24-Way Orange surface DB Steel
AC-COMBINER-50K-2	2x Deye HV inverters up 50kw	2x 160A 4P MCCB	2x 80A 4P MCB	N/A	250A 4P C/O	36-Way Orange surface DB Steel
AC-COMBINER-50K-3	3x Deye HV inverters up 50kw	3x 160A 4P MCCB	3x 160A 4P MCCB	N/A	400A 4P C/O	Orange floor standing Enclosure steel 1800x600x600
AC-COMBINER-50K-4	4x Deye HV inverters up 50kw	4x 160A 4P MCCB	4x 160A 4P MCCB	N/A	630A 4P C/O	Orange floor standing Enclosure steel 1800x600x600

PV STRING MONITORING SYSTEM

Solar DC String Monitoring Device

AGF-M Perforation type PV confluence acquisition device is specially designed for PV combiner box. It is used for monitoring the running state of solar panels in solar cell arrays, measuring the currents of solar cell, detecting the state of surge protection devices and DC breaker. The device is equipped with RS485(Modbus) communication port for transmitting all the data to master device

Master Device - with LED Display

Code	Aux Supply/ Max. String VDC	Communication	Contact Input	No. Channels (Max.)	Size (H x W x D)
AGF-M24T-P2	1000VDC	2 x RS485 Modbus RTU	3 NC/NO	24	102 x 45 x 105
AGF-M24T-P3	1500VDC	2 x RS485 Modbus RTU	3 NC/NO	24	102 x 45 x 105

Current Transducer Bus Module

Code	Max. Current	Communication	Accuracy Class	No. Channels (Max.)	Size (H x W x D)
AGF-M4T	20ADC	2 x RS485 Modbus RTU	0.5	4	55 x 73 x 26
AGF-M8T	20ADC	2 x RS485 Modbus RTU	0.5	8	55 x 144 x 26

Features:

- Real-time measurement of the inner temperature of the combiner box
- LED display, fit for checking and testing operation
- Up to 32 Master devices can make up a network.
- Din rail installation
- Thermistor: NTC input
- Programmable slave address, baudrate, data format



AGF-M24T



AGF-M4T



AGF-M8T

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



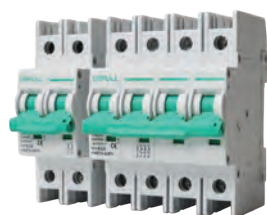
Extension Shaft

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.

NEW

DC CIRCUIT BREAKERS



Rated Breaking Capacity

2P: 6KA @ 600VDC
Icu/Ics 3KA @ 800VDC
1.5KA @ 1000VDC

4P: 6KA @ 600VDC
Icu/Ics

DIN Rail Mounting DC Miniature Circuit Breakers - $U_i = 1250V$ / $U_{imp} = 6kV$

Rated Current	2 Pole Code 600VDC	4 Pole Code 1200VDC
6A	FMB7N-2P-6	FMB7N-4P-6
10A	FMB7N-2P-10	FMB7N-4P-10
16A	FMB7N-2P-16	FMB7N-4P-16
20A	FMB7N-2P-20	FMB7N-4P-20
25A	FMB7N-2P-25	FMB7N-4P-25
32A	FMB7N-2P-32	FMB7N-4P-32
40A	FMB7N-2P-40	FMB7N-4P-40
50A	FMB7N-2P-50	FMB7N-4P-50
63A	FMB7N-2P-63	FMB7N-4P-63



Rated Breaking Capacity

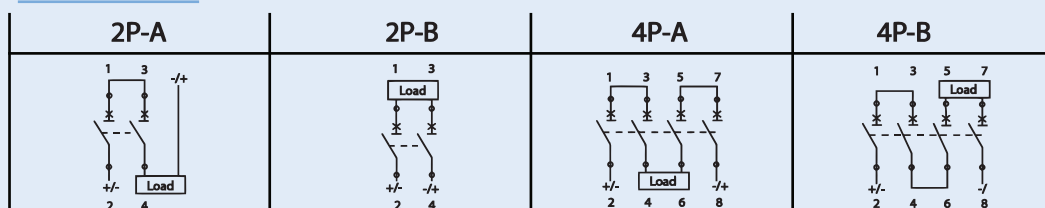
2P: 6KA @ 500VDC
Icu/Ics 3KA @ 800VDC
1.5KA @ 1000VDC

4P: 6KA @ 1000VDC
Icu/Ics

DIN Rail Mounting DC Miniature Circuit Breakers - $U_i = 1250V$ / $U_{imp} = 6kV$

Rated Current	2 Pole Code 500VDC	4 Pole Code 1000VDC
80A	FMB1Z-2P-80	FMB1Z-4P-80
100A	FMB1Z-2P-100	FMB1Z-4P-100
125A	FMB1Z-2P-125	FMB1Z-4P-125

Wiring Diagram:



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



Open Code	BDM-125*	BDM-250*
Enclosed Code IP65	EBDM-125*	EBDM-250*
Nominal current Ratings (In)	80A	160A
	125A	200A
		250A
Ratings:	U_i/U_e	500VDC
	Ics/Icu	15kA
Dimensions:	Open	151x65x119mm
	Enclosed	271x154x134mm

See 2P wiring diagram above

DC ISOLATORS

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



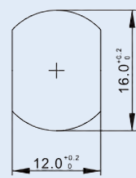
BYSS-2P



BYSS-4P



BYSS-6P



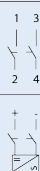
Panel Cutout

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

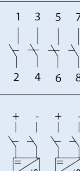
Code	Rated Current @ 800VDC	Rated Current @ 1000VDC	Rated Current @ 1200VDC	Rated Current @ 1500VDC	Strings	Size (mm) H x W x D
BYSS-1-18-2P	25A	18A	15A	-	1	60 x 47 x 94
BYSS-1-18-4P	25A	18A	15A	-	2	60 x 47 x 115
BYSS-1-18-6P	25A	18A	15A	-	3	60 x 47 x 136
BYSS-1-32-2P	40A	32A	25A	-	1	60 x 47 x 94
BYSS-1-32-4P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

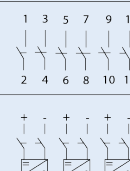
2P - 1 String



4P - 2 Strings



6P - 3 Strings



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.

NEW

DC ISOLATOR SWITCHES

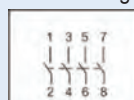


DIN Rail Mounting DC Isolator - DC21B

Code	Wiring	Rated Current @ 600VDC	Rated Current @ 800VDC	Rated Current @ 1000VDC	Rated Current @ 1200VDC	Size (mm) H x W x D
GF40.2-32-D4B	2 Strings	32A	32A	23A	13A	78 x 65 x 108
	1 String	32A	32A	32A	32A	

Wiring Diagram

4P - 2 String



4P - 1 String



Features

- Padlockable In OFF Position
- Flame Retardant Housing Material
- Arc Suppression: $< 3ms$

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

END
OF
RANGE

KATKO



PVM

Enclosed Type Isolators **IP66** - DC21B/DC-PV2 (1000V) - $U_i = 1200V$ / $U_{imp} = 8kV$

Code PC	Rated Current @ 600VDC	Rated Current @ 1000VDC	Rated Current @ 1200VDC	Strings	Size (mm) H x W x D
PVM425	25A/25A	25A/25A	25A (DC21B)	1	131 x 97 x 106
PVM432	32A/32A	32A/32A	32A (DC21B)	1	131 x 97 x 106

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

NEW



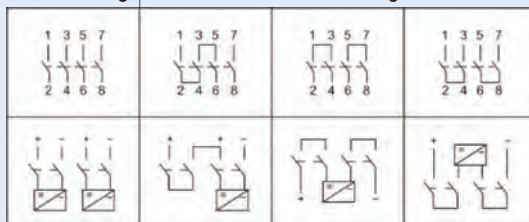
Enclosed DC Isolators **IP66** - DC21B

Code With Glanded	Code With MC4	Rated Current @600VDC	Rated Current @800VDC	Rated Current @1000VDC	Rated Current @1200VDC	Strings	Size (mm) H x W x D
LR40-2-32-D4B	LR40-2-32-D4B-MC4	32A	32A	23A	13A	2	161 x 104 x 76.5
		32A	32A	32A	32A	1	

Wiring Diagram

4P - 2 String

4P - 1 String



Features

- UV Resistant **IP66** Enclosure
- Padlockable in Off Position
- Arc Suppression: <3ms
- Interlocked Lid, only removable in off position

Enclosed DC Isolators - **IP66**

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

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



Glanded Type

NEW

BATTERY SWITCH



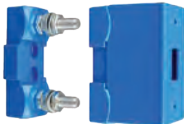
Battery Switch

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	60A	60A	200A	125A	400A
	125A	100A	80A	250A	200A	500A
	150A		100A	300A	250A	
	200A		125A	400A	300A	
			150A	500A		
			175A			
Fuse Bases						
Code	MIDI-FB		MEGA-FB	VIC-MEGA-FB		ANL-FB
Description	Standard base		Standard base	Modular base		Standard base

NEW

FUSE HOLDERS WITH BUSBARS



- 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

INSTALLATION TOOLS

Solar Module Analyser		Solar Connector Spanner	Solar Tool Kit
Code	Description		
PROVA200	Solar Panel Performance Analyser		
PROVA300XP	Test Result Printer	PV-STX	PV-BOX
- Voltage Range: 0-60VDC - Current Range: 0-6A - I-V Curve Test for Solar Cell - Pmax Search by Auto-Scan (60V, 6A) - Maximum Voltage (Vmaxp) At Pmax		- Maximum Current (Imaxp) At Pmax - Voltage At Open Circuit (Vopen) - Current at Short Circuit - Calculation of Efficiency (%) - Manual Single Point Test	
		Set of Spanners for working with Solar Connectors	
		Aluminium box with foam cushion for PV tools. All tools in storage.	



Solar Hoist Kit - 250 Comfort

Code	DSL-02093
Lifting Height	12m
Load Capacity	250kg
Lifting Speed	30m/min
Power Supply	230VAC/1.3kW
Available for rental	
Code	Description
DSL-02093R	Rental Unit
DSL-02093/DAY	Daily Rental Charge

NEW

SOLAR PANEL CLEANING BRUSHES

	Manual Solar Cleaning Brush	Motorised Solar Cleaning Brush	
			
Code	X21-9M	X41-AC-5.5M	X42-DC-5.5M
Description	Manual Solar Cleaning Brush	Dual Head Solar Cleaning Brush	
Brush	Manual - 350mm (L)	2 x Motorised - Ø320mm	2 x Motorised - Ø320mm
Power	-	230/24VDC - 240W	24VDC/26Ah - 240W
Pole Length	9m Telescopic	5.5m Telescopic	5.5m Telescopic
Kit Includes	Water pipe: 20m Pipe connector & Valve	Water pipe: 9m Pipe connector & Valve AC/DC Power Supply with 17m cable	Water pipe: 9m Pipe connector & Valve Lithium Battery & Charger



Double-head electric brush photovoltaic cleaning



WATER-FED BRUSH

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	PRESTD-2
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 Brass	Terminal P+N Nickel Plated

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

SOLAR



BATTERIES



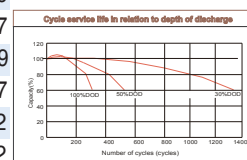
BC1

Sealed Lead Acid

Sealed Lead Acid VRLA batteries are designed with AGM (Absorbent Glass Mat) technology, High performance plates and electrolyte to give extra power output for common power backup systems.

* Battery sizes may be changed by manufacturer

Code	Nominal Voltage	Nominal Capacity	Terminal type	*Size (mm)
SY612	6V	1.2Ah	Lug - 4.8mm	98 x 25 x 56
SY632	6V	3.2Ah	Lug- 4.8mm	135 x 34 x 66
SY640	6V	4.0Ah	Lug - 4.8mm	70 x 47 x 107
SY1212	12V	1.2Ah	Lug - 4.8mm	98 x 45 x 59
SY1245	12V	4.5Ah	Lug - 4.8mm	90 x 70 x 107
SY1270	12V	7.2Ah	Lug - 4.8mm	150 x 65 x 102
SY1290	12V	9.0Ah	Lug - 6.35mm	151 x 65 x 102
SY12012	12V	12Ah	Lug - 6.35mm	151 x 98 x 102
SY12018	12V	18Ah	M5	181 x 77 x 167
SY12024	12V	24Ah	M5	165 x 126 x 173
SY2435	24V	3.5Ah	Lug - 4.8mm	184 x 73 x 71



NEW

NEW

NEW



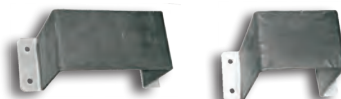
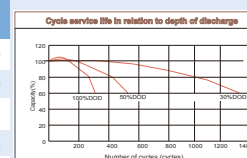
BC1

Deep Cycle AGM

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.

* Battery sizes may be changed by manufacturer

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



BATTERY BRACKET 1
BATTERY BRACKET 2

Mounting Brackets

Code	Description
BATTERY BRACKET	Mounting Bracket Galv. for 7.0Ah Battery - Flat
BATTERY BRACKET 1	Mounting Bracket Galv. for 7.0Ah Battery - Upright
BATTERY BRACKET 2	Mounting Bracket Galv. for 4.5Ah Battery - Upright

BC1

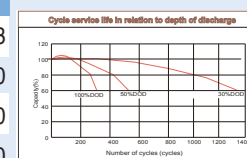


AGM / Gel Solar Batteries

- 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



WHILE STOCKS LAST

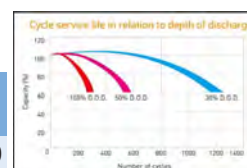


DTM12100L

Asterion DTM(L) - AGM

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

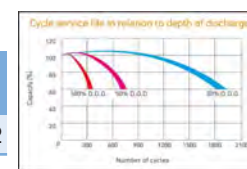


GEL12-100

Asterion GEL - AGM+GEL

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



SOLAR

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



Code	BN13V-8-104WH	BN13V-11-140WH	BN13V-22-280WH	BN13V-108-1.4K
Capacity @ C10, 25°C	104Wh / 8Ah	140Wh / 11Ah	280Wh / 22Ah	1400Wh / 108Ah
Nominal Voltage	13VDC			
Discharge Current (Cont/Burst 30s)	1.44A / 7.2A	11A / 20A	20A / 40A	110A / 160A
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
Net Weight	1.3kg	1.5kg	2.6kg	14kg

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

IP54



WITH BUILT-IN BLUETOOTH MONITORING



26V Mobile Power Series IP56



Code	BN13V-108-1.4K-BT	BN13V-218-2.8K	BN26V-50-1.3K
Capacity	1400Wh / 108Ah	2800Wh / 218Ah	1300Wh / 50Ah
Nominal Voltage			26VDC
Discharge Current (Cont)	Rec: 50A/Max: 100A	100A	Rec: 10A/Max: 50A
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)	330 x 175 x 195mm	522 x 240 x 245mm	327 x 172 x 218mm
Net Weight	12.5kg	27kg	13.5kg

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

SOLAR

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	26VDC	
Code	BN26V-125-3.3K-HC	BN26V-280-7.3K-HC
Capacity @0.5C, 25°C	3250Wh	7280Wh
Max. Continuous Charge / Discharge	125A	240A
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)	510 x 210 x 310	800 x 210 x 310
Weight	38kg	80kg

NEW

BATTERY MONITORING AND CONTROL

BLUE NOVA
energy



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	• RS485 Port (RJ45) • Inverter CAN Port (RJ45) • Battery BMS CAN Port (RJ45) • USB Port (Micro)

Kit Includes

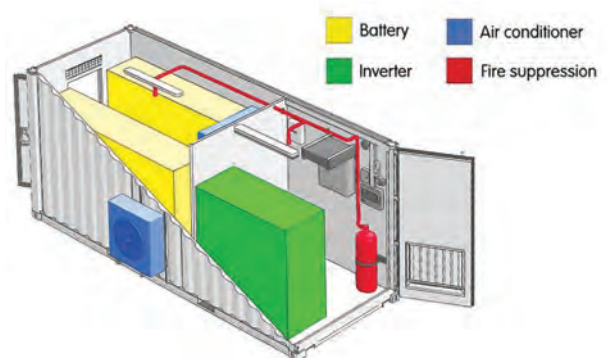
• DC Power Supply • CAN Cable • RS485 Cable • USB Cable

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.

LITHIUM BATTERIES

NEW



- 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

HIGH CAPACITY LITHIUM BATTERIES

Freedom Won Lite Home and Business 52V Range

Freedom Won's LiTE technology incorporates the highest quality LiFePO4 cells with an advanced battery management system (BMS) and protection features, ensuring an ultra-safe battery with high power capabilities.

freedom
WON



Code	FLHOME-5/4	FLHOME-10/8	FLHOME-15/12	FLHOME-20/16
Nominal voltage	52VDC	52VDC	52VDC	52VDC
Total Energy Capacity	5kWh	10kWh	15kWh	20kWh
Useable energy @80% DoD	4kWh	8kWh	12kWh	16kWh
Capacity	100Ah	200Ah	300Ah	400Ah
Max. And Cont. Charge Current	100A	200A	300A	400A
Max./Cont. Discharge Current	200A / 100A	300A/200A	480/300A	480/400A
Dimensions HxWxD (mm)	500 x 340 x 290	745 x 340 x 290	745 x 490 x 290	745 x 640 x 290

- Control Interface: 2x RJ45CANBUS ports for interfacing with compatible inverters and System controllers.
- Protection: integrated DC circuit Breaker controlled by BMS
- DC Connection: Integrated 1.8m flyleads.
- Cycle life : ≥5500 expected life @ 80% Dod



Code	FLHOME-30/24	FLHOME-40/32	FLBUS-60/48	FLBUS-80/64
Nominal voltage	52VDC	52VDC	52VDC	52VDC
Total Energy Capacity	30kWh	40kWh	60kWh	80kWh
Useable energy @80% DoD	24kWh	32kWh	48kWh	64kWh
Capacity	600Ah	800Ah	1200Ah	1600Ah
Max. And Cont. Charge Current	600A	600A	800A	800A
Max./Cont. Discharge Current	750A / 600A	750A / 600A	1000A / 800A	1000A / 800A
Dimensions HxWxD (mm)	1300 x 413 x 370	1300 x 522 x 370	1300 x 743 x 370	1300 x 1009 x 370

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

NEW

LITHIUM BATTERIES

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

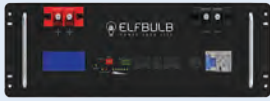
Features

- 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

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-280-1.43K-FS
Nominal Voltage	51.2V	51.2V	51.2V	51.2V
Nominal Capacity	5120Wh/100Ah	5120Wh/100Ah	10240Wh/200Ah	14300Wh/280Ah
Cycle Life	≥6000 Cycles @ 80% DoD, 1C	≥6000 Cycles @ 80% DoD, 1C	≥6000 Cycles @ 80% DoD, 1C	≥6000 Cycles @ 80% DoD, 0.7C
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	123kg
Dimensions [D*W*H]	490 x 440 x 250mm	555 x 390 x 150mm	590 x 375 x 245mm	830 x 500 x 250mm

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	10Years	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

NEW

LITHIUM BATTERIES

	Rack Mount	Rack Mount	Rack Mount LiFePO4	Wall Mount LiFePO4
Accessories Included: - Power cable set - Communication Cable				
Code	DYN-A48100-4.8KWH	DYBA51100-5KWH	RESI-51100RM-5.1KWH	RESI-51100WM-5.1KWH
Nominal Voltage	48VDC	51.2VDC	51.2V	51.2V
Nominal Capacity	4800Wh/100Ah	5120Wh/100Ah	5120Wh / 100Ah	5120Wh / 100Ah
Cycle Life	≥6000 Cycles @ 80% DoD, 0.5C	≥6000 Cycles @ 80% DoD, 0.5C	>6000 (0.5C@ 25°C, 80% DOD)	>6000 (0.5C@ 25°C, 80% DOD)
Communication Port	RS485, RS232 & CAN	RS485 & CAN	RS232, RS485, CAN	RS232, RS485, CAN
Max Cont. Charge/Discharge Current	50A (Recommended) / 75A Max	50A (Recommended) / 75A Max	100A / 100A	100A / 100A
Warranty	10 Years	10 Years	5 Years	5 Years
Weight	45kg	50kg	45kg	49kg
Dimensions	597 x 504 x 170mm	558 x 545 x 150mm	155 x 442 x 470mm	550 x 400 x 175mm



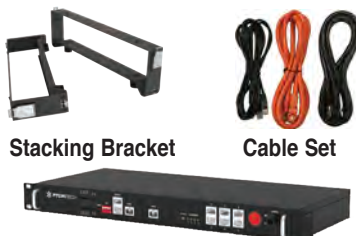
Accessories - for Dyness

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) 85A Max	37A, (Recommended) 74A Max	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



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

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

CAB-DEYE-BNRP	DEYE to Blue Nova Racpower
CAB-LUX-BNRP	LuxPower Blue Dip Switch to Blue Nova Racpower
CAB-LUX-DYNES	Luxpower Red Dip Switch to Dyness
CAB-LUXOLD-BNRP	LuxPower Red Dip Switch to Blue Nova Racpower

NEW

LITHIUM BATTERIES

Deye

Features

- ≥ 6000 Cycles @ 90% DoD, 0.3C
- 10 Year Warranty
- RS485/CAN BMS Communication

Rack or Wall Mounting - Low Voltage



Wall Mount - Low Voltage



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
Communication Port		RS485 & CAN	
Max. Cont. Charge/Discharge Current	100A	100A	Charge: 200A / Discharge: 250A
Dimensions (W*D*H) / Weight	440 x 133 x 560mm / 44kg	440 x 620 x 140mm / 45kg	600 x 750 x 200mm / 95kg
Scalability	Max. 64 units in parallel	Max. 32 units in parallel	Max. 32 units in parallel
Accessories	Rack/Wall Mounting Bracket, Power Cable Set, Communication Cable Optional Stacking Bracket: DEYE-3U-BR	Power Cable Set, Wall mounting Bracket and Communication Cable	Power Cable Set, Wall mounting Bracket and Communication Cable

NEW

LITHIUM TRACTION BATTERIES





Lithium Golf Cart Batteries - IP65

Code	S5156R	S51105L
Nominal Voltage	51.2V	51.2V
Nominal Capacity	50Ah/2.55kwh	105Ah/4.37kwh
Charge/Discharge Current	50A/50A	50A/200A
Cycle Life	> 3500 Cycles	> 3500 Cycles
Size	460 x 334 x 235mm	490 x 334 235mm
Weight	29kg	43±2kg

- 5 Year Warranty
- Zero Maintenance
- Fast Charging





Lithium Forklift Batteries - IP65

Code	F48420AF	F48460N
Nominal Voltage	51.2V	51.2V
Nominal Capacity	420Ah/21.5kwh	460Ah23.5kwh
Charge/Discharge Current	200A/350A	200A/350A
Cycle Life	> 3500 Cycles	> 3500 Cycles
Size	820 x 528 x 570mm	820 x 528 x 570mm
Weight	250±20kg	295±20kg

- 5 Year Warranty
- Built-In Battery Management System
- Steady Output - Consistant Performance Over Time

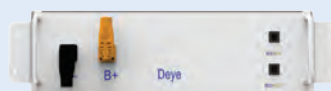
DEYE HV BATTERIES



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

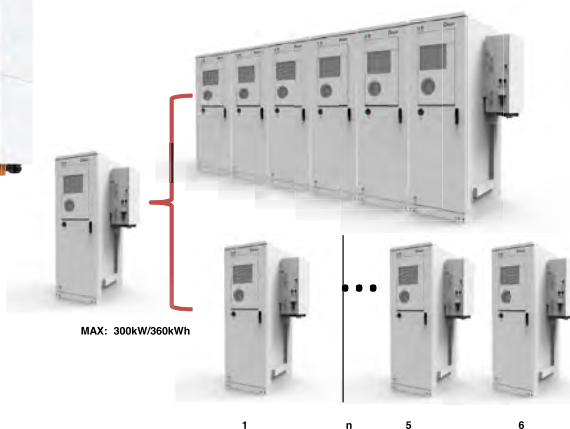
Code	DEYE-HV-BOS-G5.12KWH
Nominal Voltage	51.2V
Nominal Capacity	5120Wh/100Ah
Cycle Life	≥6000 Cycles @ 90% DoD, 0.3C
Communication Port	RS485 & CAN
Max Cont. Charge/Discharge Current	100A
Warranty	10 Years
Weight	44kg
Dimensions	440 x 570 x 133mm

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



MAX: 300kW/360kWh

Inverter to be ordered separately

- 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

High Voltage Battery Storage System IP55

Code	DEYE-HV-GE-F60
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)

NEW
C&I HYBRID STORAGE SOLUTIONS IP20

				
	1x unit 1x unit	1x unit 2x units	2x units 2x units	2x units 4x units
Code	DEYE-HV-ID-50/60KWH	DEYE-HV-ID-50/120KWH	DEYE-HV-ID-100/120KWH	DEYE-HV-ID-100/240KWH
AC Power	50kW	50kW	100kW	100kW
Battery Capacity	61.44kWh	122.8kWh	122.8kWh	245.6kWh
PV Input Power	65kWp	65kWp	130kWp	130kWp
AC Combiner Incl.	AC-COMBINER-50K-1	AC-COMBINER-50K-1	AC-COMBINER-50K-2	AC-COMBINER-50K-2
				
	3x units 3x units	3x units 6x units	4x units 4x units	4x units 8x units
Code	DEYE-HV-ID-150/180KWH	DEYE-HV-ID-150/360KWH	DEYE-HV-ID-200/240KWH	DEYE-HV-ID-200/480KWH
AC Power	150kW	150kW	200kW	200kW
Battery Capacity	184.3kWh	368.6kWh	245.6kWh	491.2kWh
PV Input Power	195kWp	195kWp	260kWp	260kWp
AC Combiner Incl.	AC-COMBINER-50K-3	AC-COMBINER-50K-3	AC-COMBINER-50K-4	AC-COMBINER-50K-4
				
	5x units 5x units	5x units 10x units	6x units 6x units	6x units 12x units
Code	DEYE-HV-ID-250/300KWH	DEYE-HV-ID-250/600KWH	DEYE-HV-ID-300/360KWH	DEYE-HV-ID-300/720KWH
AC Power	250kW	250kW	300kW	300kW
Battery Capacity	307kWh	614kWh	369kWh	738kWh
PV Input Power	325kWp	325kWp	390kWp	390kWp
AC Combiner Incl.	AC-COMBINER-50K-5	AC-COMBINER-50K-5	AC-COMBINER-50K-6	AC-COMBINER-50K-6

- Larger Solutions up to 500KW / 1MWh available on request
- High-voltage capacity and advanced technology make it a perfect backup power solution for your home or business
- Kit includes: Inverter, Batteries, BMS, EMS and AC Combiner
- Cables, PV, cable reticulation, fire supression and airconditioning to be provided for separately

NEW

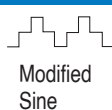
C&I HYBRID STORAGE SOLUTIONS IP55

Code	DEYE-HV-GE-50/60KWH	DEYE-HV-GE-50/120KWH	DEYE-HV-GE-100/120KWH	DEYE-HV-GE-100/240KWH
AC Power	50kW	50kW	100kW	100kW
Battery Capacity	61.44kWh	122.8kWh	122.8kWh	245.6kWh
PV Input Power	65kWp	65kWp	130kWp	130kWp
AC Combiner Incl.	-	-	AC-COMBINER-50K-2	AC-COMBINER-50K-2
Code	DEYE-HV-GE-150/180KWH	DEYE-HV-GE-150/360KWH	DEYE-HV-GE-200/240KWH	DEYE-HV-GE-200/480KWH
AC Power	150kW	150kW	200kW	200kW
Battery Capacity	184.3kWh	368.6kWh	245.6kWh	491.2kWh
PV Input Power	195kWp	195kWp	260kWp	260kWp
AC Combiner Incl.	AC-COMBINER-50K-3	AC-COMBINER-50K-3	AC-COMBINER-50K-4	AC-COMBINER-50K-4
Code	DEYE-HV-GE-250/300KWH	DEYE-HV-GE-250/600KWH	DEYE-HV-GE-300/360KWH	DEYE-HV-GE-300/720KWH
AC Power	250kW	250kW	300kW	300kW
Battery Capacity	307kWh	614kWh	369kWh	738kWh
PV Input Power	325kWp	325kWp	390kWp	390kWp
AC Combiner Incl.	AC-COMBINER-50K-5	AC-COMBINER-50K-5	AC-COMBINER-50K-6	AC-COMBINER-50K-6

- Larger Solutions up to 500KW / 1MWh available on request
- All-in-One integrated technology: Inverter, Batteries, BMS, and EMS
- Lithium Iron Phosphate (LFP) battery with aerosol fire-extinguishing solution
- Safety features: combustible gas, smoke, and temperature detection, active exhaust, and fire alarm

- Suitable for high-rate cyclic charging and discharging scenarios
- Kit includes: All-in-one system and AC combiner
- Cables, PV and cable reticulation to be provided for separately

MODIFIED SINE WAVE INVERTERS



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



Modified Sine Wave Compact Inverter

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

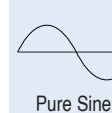
Code	SG-PSI-150W
Continuous Power	150W
Surge Power	300W
Input	12VDC (Car Lighter Plug) Output
Output	1 x 3Pin Multi-standard (230VAC / 150W)



UPDATED RANGE

PURE SINE WAVE INVERTERS

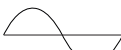
Inverters (P-Series)

												
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	-	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			

- AC Output Voltage: 230VAC/50Hz
- USB: 5V/2.1A
- Output Voltage Regulation: $\pm 10\%$

- 12V / 24V / 48VDC input
- Protection: LED Indicator and Audible Alarm for short-circuit & overload protection.
- Optional remote monitoring switch

Inverter / Charger - With Automatic Changeover (CPS-Series)

 Pure Sine									
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	—	BPC4000W-24	—	—
Code 48V	—	—	—	—	—	BPC3000W-48	BPC4000W-48	BPC5000W-48	BPC6000W-48
Charger Size	—	12V/10A, 24V/5A		12V/20A, 24V/10A		12V/30A, 24V/15A, 48V/10A			
Battery Type	LiFeP04/Flooded/Calcium/AGM/SLA/GEL (Selectable)								

- AC Output Voltage: 230VAC/50Hz
- USB: 5V/2.1A
- Output Voltage Regulation: $\pm 10\%$
- 12V / 24V / 48VDC input
- Protection: LED Indicator and Audible Alarm for short-circuit & overload protection.

- Built-in 3-stage charger
- AC Auto-Transfer switch (UPS Function)
- Input Voltage Range: $-15\% \sim +25\%$ (230VAC)
- DIP Switch for Battery type selection.
- Optional remote monitoring switch



NEW

POWER INVERTER/CHARGER

- Pure sine wave inverter
- Support LiFePO4 and Lead-acid Battery
- Built-in selectable charger
- Deep discharge protection
- Automatic line-to-battery switch over

EP1500 Inverter/Chargers



EP15 Inverter/Charger



Code	EP-1500-600W	EP-1500-1200W	EP15-0612PLUS
AC Input			
Rated Input Voltage	230VAC		230VAC
Input Voltage Range	184-278VAC		184-278VAC
AC Output			
Rated Power	600W	1200W	600W
Rated Voltage	230VAC ± 10% @50Hz		230VAC ± 10% @50Hz
Battery			
Rated Power	12VDC	24VDC	12VDC
Battery Type	Lithium/Lead-acid Battery (Selectable)		Lithium/Lead-acid Battery (Selectable)
Maximum AC Charge Current	10A/15A (Selectable)	5A/10A (Selectable)	15A
General Specifications			
Accessories Included	AC input cable, COM USB cable		AC input cable, COM USB cable
Weight	2.9kg	3.1kg	3.0kg
Dimensions (WxHxD) mm	246 x 253 x 87	246 x 253 x 87	320 x 231 x 96

NEW

SRNE SOLAR CHARGE CONTROLLERS

PWM - HC Series Solar Charge Controllers

 SRNE Supports both Lithium and Lead-acid battery	PWM - HC Series Solar Charge Controllers					
						
Code	SR-HC2410	SR-HC2420	SR-HC2430	SR-HC2440	SR-HC2460	SR-HC4840
Rated Charge Current	10A	20A	30A	40A	60A	40A
Rated Load Current	10A	20A	30A	40A	60A	40A
Nominal System Volts	12/24VDC	12/24VDC	12/24VDC	12/24VDC	12/24VDC	12/24/36/48VDC
Max PV Voc	55VDC	55VDC	55VDC	55VDC	55VDC	100VDC
Dimensions (mm)	120 x 75 x 34	134 x 85 x 36	159 x 100 x 39	159 x 100 x 39	193 x 131 x 56	193 x 131 x 56
• Check or adjust parameters on LCD • 2 x USB port • RS485 Communication • LCD Display for reading/viewing the parameters • Load Working Modes: Light Control, Time Control, Manual Control, Debugging Mode & Normally Open						

 SRNE Supports both Lithium and Lead-acid battery	MPPT - Shiner Series Solar Charge Controllers					
						
Code	SHINER2410-B	SHINER2420-B	SHINER2430-B	SHINER2440-B	SHINER2460-B	SHINER4820-B
Rated Battery Current	10A	20A	30A	40A	60A	20A
Rated Load Current	10A	20A	20A	20A	20A	20A
Nominal System Voltage	12/24VDC	12/24VDC	12/24 VDC	12/24VDC	12/24VDC	12/24/36/48VDC
Max PV Voc	60VDC	60VDC	100VDC	100VDC	100VDC	100VDC
MPPT Voltage Range	2V - 45VDC	2V - 45VDC	2V - 72 VDC	2V - 72VDC	2V - 72VDC	2V - 72 VDC
Dimensions (mm)	155 x 99	181 x 118	187 x 133 x 72	228 x 160 x 72	261 x 186 x 82	181 x 118 x 62

- CAN/ RS485 Communication
- LCD Display for reading/viewing the parameters
- Load Working Modes: Light Control, Time Control, Manual Control, Debugging Mode & Normally Open
- Peak Efficiency: 85 - 98%
- Built-in Bluetooth Module usable with the SRNE app to check or adjust parameters



SOLAR

PWM SOLAR CHARGE CONTROLLERS

Landstar EU Series

Code	LS0512EU	LS1012EU	LS1024EU	LS2024EU	LS3024EU
Rated Charge Current	5A	10A	10A	20A	30A
Max Load Current	5A	10A	10A	20A	30A
Nominal System Voltage	12V	12V	12/24V Auto	12/24V Auto	12/24V Auto
Display	LED	LED	LED	LED	LED
Max Voc	30V	30V	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
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

- 3- Stage Intelligent Charging
- LED Battery Status Indicator
- Battery Over / Under Voltage Protection
- Supports Sealed, Gel or Flooded Battery Types
- Battery Temperature Compensation
- Load Overload / Short Circuit Protection

Viewstar AU Series

								
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
	• 3-stage intelligent charging • Supports sealed, gel or flooded batteries • Battery temperature compensation with external temperature probe input		• Multiple load control modes • Energy statistics function		• Extensive electronic protection • Probe code: RTS300R47K3.81A			• Multi-stage charging • Supports sealed,gel or flooded batteries

- 3-stage intelligent charging
- Multiple load control modes
- Extensive electronic protection
- Supports sealed, gel or flooded batteries
- Energy statistics function
- Probe code: **RTS300R47K3.81A**
- 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
Power	24V	260W	520W	260W	520W	780W
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



MPPT SOLAR CHARGE REGULATORS



MT50



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 400W 24V 800W 36V 1200W 48V 1600W	600W 1200W 1800W 2400W	800W 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

EXTENDED RANGE

ORION DC TO DC CONVERTER



60W



240W

Orion Non-Isolated DC-DC Converters IP43

Code	OR-DC/DC-24/12-5	OR-DC/DC-24/12-20
Input Voltage Range	18-35V	18-35V
Nominal Output Voltage	12.7V	12.5V
Output Voltage adjust range	-	-
Cont. Output Current	5A (60W)	20A (240W)
Size	53 x 51 x 27mm	73 x 94 x 45mm

High Efficiency: ≥95% @ Full Load



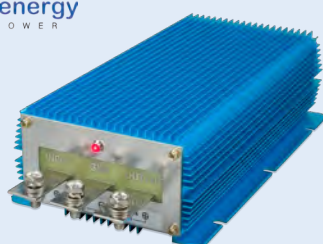
Orion Isolated DC-DC Converters IP43



Code	OR-DC/DC-24/24-5	OR-DC/DC-12/24-10	OR-DC/DC-24/48-6	OR-DC/DC-48/12-20
Input Voltage	16 - 35V	8 - 17V	16 - 35V	32 - 70V
Output Voltage	24.2V	24.2V	48.2V	12.2V
Output Voltage Adj.	20 - 30V	20 - 30V	40 - 60V	10 - 15V
Cont. Output Current	5A (120W)	10A (240W)	6A (280W)	20A (240W)
Size	100 x 113 x 47mm	130 x 186 x 70mm	130 x 186 x 70mm	130 x 186 x 70mm

Code	OR-DC/DC-48/24-12	OR-DC/DC-12/12-30	OR-DC/DC-24/12-30
Input Voltage	32 - 70V	10 - 17V	20 - 35V
Output Voltage	24.2V	12.2V	12.2V
Output Voltage Adj.	20 - 30V	10 - 15V	10 - 15V
Cont. Output Current	12A (280W)	30A (360W)	30A (360W)
Size	130 x 186 x 70mm	130 x 186 x 80mm	130 x 186 x 80mm

- Remote on-off
- Adjustable Output Voltage
- High temperature protected
- All models are short-circuit proof and can be paralleled to increase output current



OR-DC/DC-IP-12/24-50

Orion Non-Isolated DC-DC Converter IP67

Code	OR-DC/DC-IP-12/24-50
Input Voltage Range	10-15VDC
Nominal Output Voltage	24V
Output Voltage adjust range	± 3%
Max Cont. Output Current	50A (1200W)
Size	265 x 127 x 63mm

- Completely encapsulated: waterproof, shockproof & ignition protected
- Can be used in harsh environments

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



Code	BMV700	BMV702	BMV712	VWB-BMV	• 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
Input Voltage	6.5 - 95VDC	6.5 - 95VDC	6.5 - 70VDC	Wall Mounted Display Enclosure	
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

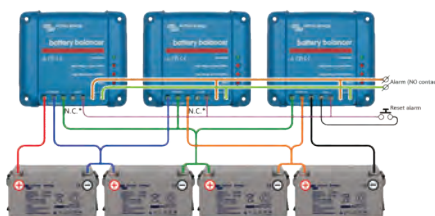


CBC-12/24-230A

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 ampage 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

BATTERY BALANCER IP22



Code	BB-12/24
Input Voltage Range	Up to 18V / Battery, Max 36V total
Turn on Level	27.3V $\pm$ 1%
Turn off Level	26.6V $\pm$ 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

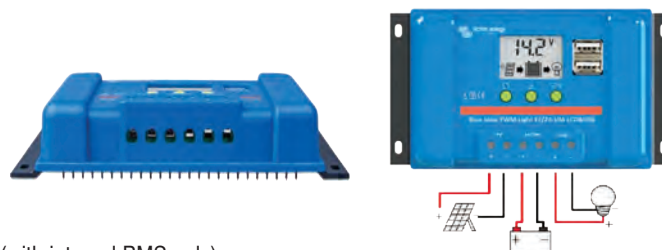
- Designed to overcome the problem of different levels of charge due to internal leakage current in battery banks when connecting batteries in series/parallel combinations thereby extending the life span of batteries
- Equalizes the state of charge of 2 series connected batteries or of several parallel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

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 Ouput	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			

	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

MPPT SOLAR CHARGE CONTROLLERS

Blue Solar MPPT Charge Controllers

Smart Phone monitoring & control. Using Bluetooth Dongle.						
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

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
	Load Output	15A	20A	—	—	—
	Battery Voltage	12/24V(Auto)	12/24V(Auto)	12/24V(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
	Max Solar Voc/Isc	75VDC/15A	100VDC/20A	100V/60A	150V/40A	150V/50A
	Comms Protocol	VE.Direct	VE.Direct	VE.Direct	VE.Direct	VE.Direct
Optional Display	—	—	—	—	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	
PV Connection	Terminal	Terminal	Terminal	Terminal	Terminal	
Smart Phone monitoring & control 			c/w Optional Display 	c/w Optional Display 		
	Code	SS-MPPT-150/85-TR	SS-MPPT-150/85-MC4	SS-MPPT-150/100-TR	SS-MPPT-250/60-TR	SS-MPPT-250/70-TR
	Rated charge current	80A	85A	100A	60A	70A
	Battery Voltage	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	1200/2400/4900W	1450/2900/5800W	860/1720/3440W	1000/2000/4000W
	Max Solar Voc/Isc	150V/70A	150VDC/70A	150VDC/70A	250VDC/35A	250VDC/35A
	Comms Protocol	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
Dimensions (mm)	246 x 295 x 103	246 x 295 x 103	216 x 295 x 103	185 x 250 x 95	185 x 250 x 95	
PV Connection	Terminal	MC4		Terminal		
Smart Phone monitoring & control 						
	Code	SS-MPPT-250/85-TR	SS-MPPT-250/100-TR	SS-MPPT-450/100-TR	SS-MPPT-450/200-TR	
	Rated charge current	85A	100A	100A	200A	
	Battery Voltage	12/24/48V (Auto)	12/24/48V (Auto)	48V	48V	
	Nom. PV Power 12/24/48V	1200/2400/4900W	1450/2900/5800W	5.8KW @ 57.6V	11.5KW @ 57.6V	
	Max Solar Voc/Isc	250VDC/70A	250VDC/70A	450VDC/100A	450VDC/200A	
	Comms Protocol	VE. Direct	VE. Direct	VE.Can and VE.Direct	VE.Can and VE.Direct	
	Optional Display	SS-MPPT-CD	SS-MPPT-CD	Built-in Digital Display	Built-in Digital Display	
Dimensions (mm)	216 x 295 x 103	216 x 295 x 103	440 x 313 x 126	487 x 434 x 146		
PV Connection	Terminal	Terminal	Terminal	Terminal		

Features

- 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

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	GX-12/1200
Code 24V	GX-24/250	GX-24/375	GX-24/500	GX-24/800	GX-24/1200	GX-24/1200
Code 48V	-	GX-48/375	GX-48/500	GX-48/800	GX-48/1200	GX-48/1200
Cont. Power (25°C)	250VA/200W	375VA/300W	500VA/400W	800VA/650W	1200VA/1000W	1200VA/1000W
Peak Power	400W	700W	900W	1500W	2200W	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	117 x 232 x 327

Features

- 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 65 for communication accessories
- Remote on/off
- Output sockets: IEC-320

Sun Inverter with PWM Solar Charger - VE Direct (c/w Built-in Bluetooth)

 				
	Code	SUN-12/250-15	SUN-24/250-10	SUN-24/250-10
Cont. Power (25°C)	250VA / 200W	250VA / 200W	250VA / 200W	250VA / 200W
Peak Power	400W	400W	400W	400W
Battery Voltage	9.2 - 17VDC	9.2 - 17VDC	18.4 - 34VDC	18.4 - 34VDC
AC Output Voltage	230VAC +/- 3 % 50Hz +/- 0.1 %	230VAC +/- 3 % 50Hz +/- 0.1 %	230VAC +/- 3 % 50Hz +/- 0.1 %	230VAC +/- 3 % 50Hz +/- 0.1 %
Max PV Voc/Isc/Power	25VDC / 15A / 375W	25VDC / 15A / 375W	50VDC / 10A / 500W	50VDC / 10A / 500W
Dimensions (mm)	86 x 165 x 260mm	86 x 165 x 260mm	86 x 165 x 260mm	86 x 165 x 260mm

Features

- VE.Direct communication port can be connected to a **GX** device for monitoring via the VRM Portal App
- Bluetooth Built-in - Parameters can be read, monitored and configured using the Victronconnect App
- ECO mode - the inverter will switch to standby when the load decreases below a preset value
- See pg 65 for communication accessories
- Remote on/off
- Output sockets: IEC-320

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

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 $\pm 2\%$ 50Hz $\pm 0,1\%$		230VAC $\pm 3\%$ 50Hz or 60Hz $\pm 0,1\%$	
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

- 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 65 for communication accessories
- 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.

INVERTER / CHARGER WITH AUTOMATIC CHANGEOVER

	MultiPlus 500 - 1200VA		
• 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 $\pm 2\%$ / 50Hz $\pm 0.1\%$		
Charger 12/24/48V	20A / 10A / 6A	35A / 16A / 9A	50A / 25A / 13A

Features

- 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.
- 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
See pg 65 for communication accessories

INVERTER / CHARGER WITH AUTOMATIC CHANGEOVER

Multiplus - Lithium Ion Battery Compatible, Programmable Relay

- Versatile Parallel Capability - Remote Monitoring & Control with GX Device - 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
Cont Power @ 25°	1600VA/1300W	2000VA/1600W	3000VA/2400W	5000VA/4000W
Peak Power	3000W	4000W	6000W	10000W
AC Input Range	187 - 265VAC / 45 - 65Hz			
DC Input Range	9.5 - 17VDC / 19 - 33VDC / 38 - 66VDC			
Transfer Switch	16A	30A	12/24V=16A; 48V=50A	100A
AC Output	230VAC ± 2% / 50Hz ± 0.1%			
2nd AC Output	No	No	16A	50A
Charger 12/24/48V	70A / 40A	80A / 50A / -	120A / 70A / 35A	- / 120A / 70A

Multiplus II - With Ext. Current Sensor, Lithium Battery Compatible, Programmable Relay

- Optional External CT for Power Control - Dynamic ESS Feature - Remote Monitoring & Control with GX Device - Programmable Relay - Power Assist					
Code 48V c/w GX	MPIC-II-48/3000/35GX	MPIC-II-48/5000/70GX	-	-	-
Code 48V	MPIC-II-48/3000/35	MPIC-II-48/5000/70	MPIC-II-48/8000/110	MPIC-II-48/10000/140	MPIC-II-48/15000/200
Cont Power @ 25°	3000VA	5000VA	8000VA / 6400W	10000VA / 8000W	15000VA / 12000W
Peak Power	5500W	9000W	15000W	18000W	27000W
AC Input Range	187-265 VAC/45 -65Hz		187-265 VAC/45 -65Hz		
DC Input Range	38-66VDC		38-66VDC		
Transfer Switch	32A	50A	100A		
AC Output	230VAC ± 2% / 50Hz ±0.1%		230VAC ± 2% / 50Hz ±0.1%		
2nd AC Output	32A		50A		
Charger 48V	35A	70A	110A	140A	200A
External CT	MPIC-II-CT100		MPIC-II-CT100		

Quattro - Lithium Ion Battery Compatible, Programmable Relay

- Two AC Inputs & Outputs - Versatile Parallel Capability - Remote Monitoring & Control with GX Device - Power Assist				
Code 12V	QIC-12/5000/200	-	-	-
Code 24V	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°	5000VA/4000W	8000VA/6500W	10000VA/8000W	15000VA/12000W
Peak Power	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	220A / 120A / 70A	- / 200A / 110A	- / - / 140A	- / - / 200A
Max Feedthrough Current	2 x 100A	2 x 100A	2 x 100A	2 x 100A
Programmable Relay	3	3	3	3

ALL-IN-ONE SOLAR POWER SOLUTION

	Easy Solar - Inverter / Charger / MPPT			NEW	Easy Solar II - Inverter / Charger / MPPT		
							
Code	ESIC-12/1600/70	ESIC-24/1600/40	ESIC-24/3000-70	ESIC-II-24/3000-70GX	ESIC-II-48/3000-35GX	ESIC-II-48/5000-70GX	
Transfer Switch	16A	16A	50A	32A	32A	50A	
Controller Type	CCGX (not included)		CCGX	GX Device with LCD Display			
Inverter							
Input Voltage DC	9.5 - 17V	19 - 33V	19 - 33V	19 - 33V	38 - 66V	38 - 66V	
Output Voltage	230VAC $\pm$ 2% 50Hz $\pm$ 0.1%			230VAC $\pm$ 2% 50Hz $\pm$ 0.1%			
Cont. Power (25°C)	1600VA / 1300W		3000VA / 2500W	3000VA / 2400W		5000VA / 4000W	
Peak Power	3000W		6000W	5500W		9000W	
Mains Charger							
Input Voltage AC	187 - 265V / 45 - 65Hz			187 - 265V / 45 - 65Hz			
Charger Current	70A	40A	70A	70A	35A	70A	
Programmable Relay	Yes	Yes	Yes	Yes	Yes	Yes	
Solar Charge Controller - MPPT							
Max PV VOC	100V	100V	150V	250V	250V	250V	
Max Output Current	50A	50A	70A	70A	70A	100A	
Max PV Power	700W	1400W	2000W	2000W	4000W	5800W	
External CT	-			MPIC-II-CT100			

- The all-in-one solar power solution - a MPPT solar charge controller, an inverter/charger
- GX** Controller to be ordered separately for 1600VA models

- Unique solar application software - Several software programs (Assistants) are available to configure the system for various grid interactive or stand-alone applications.

NEW

RS SMART SOLAR POWER SOLUTION

	RS Smart Solar Inverter (off-grid)	Multi RS Smart Solar Inverter
		
Code	RS-SS-48/6000	MRS-SS-48/6000
Application	Off Grid with no mains	Hybrid with mains
Transfer Switch	-	50A
Parallel Capability	Single Phase & 3-Phase (Up to 12 Units)	3-Phase only (1 unit per phase)
Inverter		
Input Voltage DC	38 - 62V	
Output Voltage	230VAC $\pm$ 2% 50Hz $\pm$ 0,1%	
Cont. Power (25°C)	4800 - 5300W (Dependent on battery voltage)	
Peak Power	9000W	
AC Battery Charger		
Input	AC- Coupled with string inverter on output	187 - 265VAC / 45-65Hz (Mains)
Charger Current	100A	100A
Programmable Relay	Yes	Yes
Solar Charge Controller - MPPT		
Max PV Voc	450V	450V
Max PV Isc	30A	16A x 2
Max PV Power	4000W	6000W (3000W per tracker)
No. of MPPT Trackers	1	1 + 1

- The smart solar power solution - c/w MPPT Solar Charge Controller.
- GX** device/controller to be ordered separately for remote connection and data monitoring (VE. Direct port and VE.Can port).
- Programmable relay which can be set for general alarm, DC under voltage or genset start/stop function.
- Display to read the battery, inverter and solar charge controller parameters
- Set-up the system or change settings via bluetooth with VictronConnect App.
- Light weight, efficient and quiet.
- Built-in PV isolator



COMMUNICATION & MONITORING ACCESSORIES

Remote Monitoring & Control Gateways

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.



CERBO GX



CCGX



VENUS GX



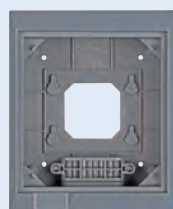
GX-TOUCH



GX-TOUCH-WM



VWB-CCGX/BMV



VWB-CCGX

Code	NEW CERBO GX	CCGX	NEW VENUS GX
Supply Voltage	8 -70VDC		
Display	No	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
NEW GX TOUCH 50	5" Touch Display for CERBO GX
NEW GX-TOUCH-70	7" Touch Display for CERBO GX
VWB-CCGX	Wall Mount Enclosure for CCGX
VWB-CCGX/BMV	Wall Mount Enclosure for CCGX & BMV Battery Monitor
NEW GX-TOUCH-50-WM	Wall Mount For GX-TOUCH-50 Touchscreen
NEW GX-TOUCH-70-WM	Wall Mount For GX-TOUCH-70 Touchscreen

Communication Accessories



CAN-USB

MK3-USB

VED-USB



VED-CABLE

VED-BT

ET112



GX-LTE-4G

GX-TANK-140

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
NEW ET112	100A Direct energy meter for Victron ESS
NEW GX-LTE-4G	4G GSM Modem For GX Communication Gateways
NEW GX-TANK-140	Tank Level Sensing Accessory For CERBO GX

NEW

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

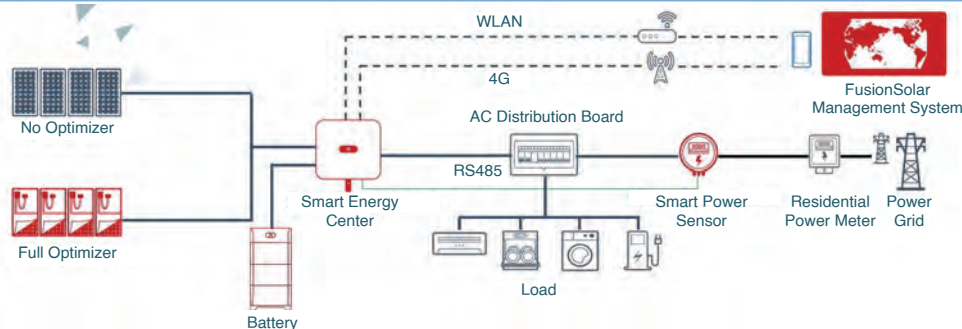
- AI Powered Active Arcing Protection
- Accurate arc fault detection via local neutral network algorithm
- Speedy arc fault protection by fast inverter shutdown



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-3KTL-L1	SUN2000L-5KTL-L1	SUN2000L-6KTL-L1	SUN2000-6KTL-M1	SUN2000-8KTL-M1	SUN2000-10KTL-M1
Output (On Grid)						
Rated Output Power	3000W	5000W	6000W	6000W	8000W	10000W
Max. Apparent Power	3300VA	5500VA	6600VA	6600VA	8800VA	11000VA
Rated Output Voltage	230VAC / 50Hz			230VAC / 400VAC, 3W/N+PE		
Max. Output Current	15A	25A	27.3A	10.1A	13.5A	16.9A
Output (Off Grid) - NOTE: Back up in off-grid mode is only 1ph even when using 3P inverters						
Backup Box	Backup Box – B0			Backup Box – B1		
Maximum Apparent Power	3000VA	5000VA	5000VA	3300VA	3300VA	3300VA
Rated Output Voltage	230VAC / 50Hz					
Maximum Output Current	13.6A	22.7A	22.7A	15A		
PV Input						
Max. PV Power	4500Wp	7500Wp	9000Wp		12000 Wp	15000 Wp
Max. Input Voltage (Voc)	600V			1100V		
Start-Up Voltage	100V			140V - 980V		
MPPT Operating Voltage Range	90V – 560V			200V		
Rated Input Voltage	360V			600V		
Max. Input Current Per MPPT	12.5A			11A		
Max. Short-Circuit Current (Isc)	18A			15A		
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			LUNA2000 Smart String ESS, 5kWh – 30kWh		
Operating Voltage Range	350 - 560VDC			600V - 980V		
Max Operating Current	15A			16.7 A		
Max Charge Power	5000W			10000W		
Max Discharge Power	3300W	5000W		6600W	8800W	10000W
General Data						
Max. Efficiency	98,30%	98,40%		98,60%		
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)			17.0 kg (Incl. Mounting Bracket)		
Dimensions	365 x 365 x 156mm (Incl. Mounting Bracket)			525 x 470 x 146.5mm (Incl. Mounting Bracket)		

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 feed-in 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

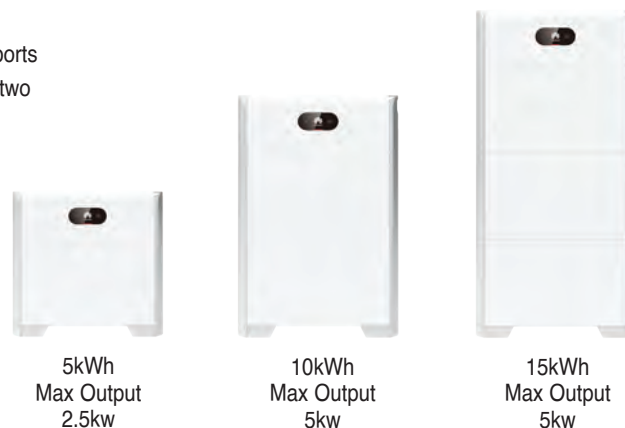
Battery Module - Lithium-iron phosphate (LiFePO4)

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



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: 230VAC	Three Phase: 400VAC
AC Output (Backup)		
Load Connection	Single Phase: 230VAC	Single Phase: 230VAC
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	

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 $\leq 1W$
- DIN35 Rail mounting
- Communication: RS485 Modbus-RTU



Single Phase



Three Phase

Code	DDSU666-H-1PH	DTSU666-H-3PH
Power Grid Type	Single Phase (2 wire)	Three phase (4 wire)
Dimensions (H x W x D)	100 x 36 x 66mm	100 x 72 x 66mm
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
- Check inverter compatability when placing your order



WLAN Dongle



4G-Dongle



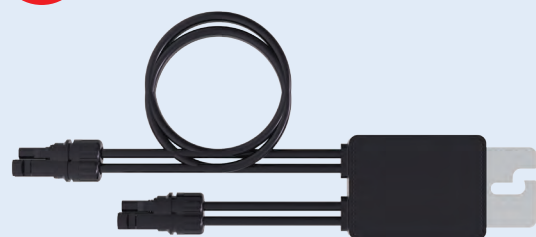
WLAN/Bluetooth

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
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

NEW

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

- 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

Long String Design (Full Optimizer)

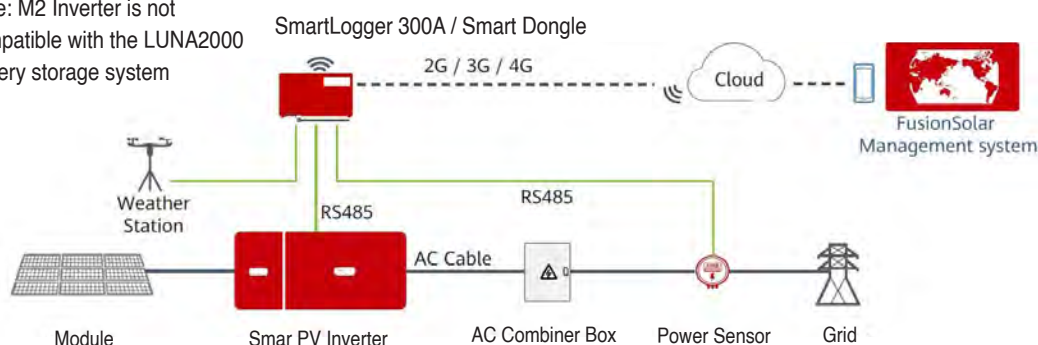
Inverter Codes	SUN2000-2-6KTL-L1	SUN2000-3-10KTL-M1	SUN2000-12KTL-20KTL-M2	SUN2000-30-40KTL-M3
Min optimizer per string	4	6	6	6
Max optimizer per string	25	50	50	26
Max DC power per string	5000W	10000W	10000W	10000W

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	SUN2000-15KTL-M2	SUN2000-20KTL-M2
Input		
Recommended Max. PV Power	22500Wp	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	15000W	20000W
Max. Apparent Power	16500VA	22000VA
Rated Output Voltage	230 VAC / 400 VAC @50Hz	
Max. Output Current	25.2A	33.5A
General Data		
Max. Efficiency	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
- Integrated PID recovery function
- Up to 30% higher yields contributed by optimizing each panel performance
- Inverter with no quick wear parts, low failure rate

FUSION SOLAR SMART LOGGER IP20



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.

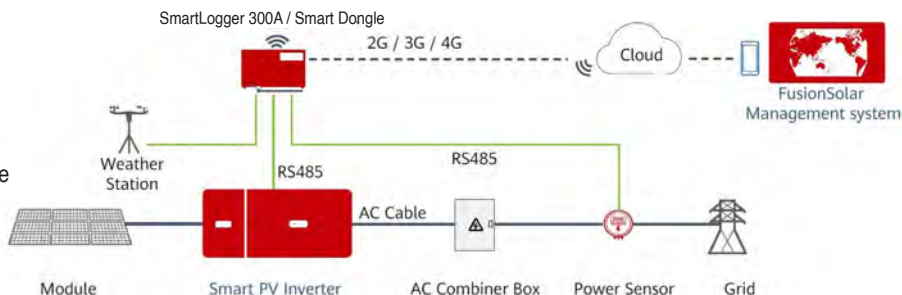
Network Application Supports

- 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

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



SUN2000-100KTL-M1 IP66

Code	SUN2000-30KTL-M3	SUN2000-40KTL-M3	SUN2000-50KTL-M3	SUN2000-100KTL-M1	SUN2000-150KTL-MGO
Output (On Grid)					
Rated AC Output Power	30000W	40000W	50000W	100000W	150000W
Max. AC Apparent Power	33000VA	44000VA	55000VA	110000VA	165000VA
Rated Output Voltage	230VAC / 400VAC, 3W/N+PE @50Hz				
Rated Output Current	43.3A	57.8A	72.2A@400VAC	144.4A@400VAC	216.5A@400VAC
Max. Output Current	47.9A	63.8A	79.4A@400VAC	160.4A@400VAC	240.5A@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	23A
Max. Short-Circuit Current(Isc)	40A		30A	40A	66A
MPPT Trackers/Max. Input Per	4/2		6/2	10/2	7/3
Optimizer Compatibility	SUN2000-450W-P ; SUN2000-600W-P		No		
General Data					
Max. Efficiency	98,70%		98,70%	98,70%	98,6%
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	102kg
Dimension (Incl. Mounting Bracket)	640 x 530 x 270mm		1075 x 555 x 300mm	1035 x 700 x 365mm	1000 x 710 x 395mm

Inverter SUN2000-100KTL-M1:

- Comes with communication module **US2000Adapter-C** used for local commissioning
- Does not support Arc Fault Circuit Interruption
- Not compatible with Smart PV Optimizers
- No built-in PID recovery function

NEW

ENERGY STORAGE SYSTEM IP65

iSitePower-M Hybrid Solution

Small-scale hybrid power solution that integrates Grid Supply, Backup Power, and Power Management.



5kW/15kWh

Intelligent and simple operation

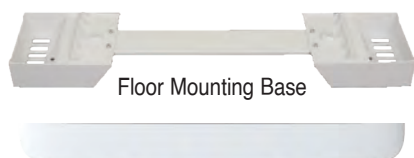
Mobile app and an integrated management system

Scalability

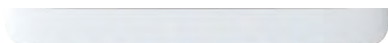
The system supports both power expansion and energy storage capacity expansion.

Quiet

An efficient natural heat dissipation design eliminates the need for cooling fans and lowers operating noise to 29 dB.



Floor Mounting Base



Wall Mounting Base

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
Max. Input Current	30 A
PV Input	
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
General	
Communication	Wi-Fi
Display	LED Indication
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
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

Accessories

Code	Description
ISP-M-MAP15A11	Mounting base/bracket
ISP-M-MAP15A12	Wall Mounting Bracket/Cover

WALL MOUNT BACKUP UNIT

NEW

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

- 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



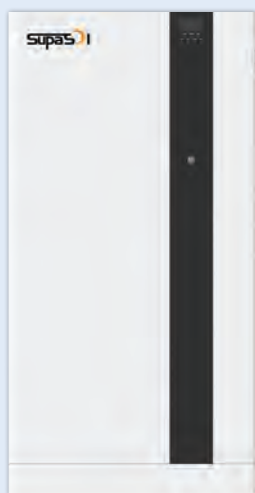
AIO-2K-LITHIUM
Wall Mount

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 Adaptor	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	-	

SOLAR

NEW

ALL-IN-ONE OFF-GRID INVERTER + ESS


LS-AIO-3.5K-5KWH

LS-AIO-5K-5KWH

- 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	

NEW

OFF-GRID INVERTERS



- 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.

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

NEW

OFF-GRID INVERTERS



PV18-1K 12VDC

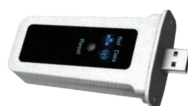


PV18-3K 24VDC

- 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

NEW

OFF-GRID INVERTERS



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

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

SOLAR

OFF-GRID INVERTERS


EM-3.5K 24VDC

EM-5.5K 48VDC

HP-5K 48VDC

- Power factor 1.0
- Pure Sine Wave
- Optional WiFi Dongle for Remote monitoring
- Built-in MPPT
- Support multiple output priority: UTL, SOL, SBU, SUB
- Lithium battery BMS communication & activation included
- **HP**-Parallel operation up to 12 units, single phase or 3P

EM/HP Range Solar Inverters

Code	EM-3.5K 24VDC	EM-5.5K 48VDC	HP-5K 48VDC
AC Input			
Rated Input Voltage	230VAC		230VAC
Input Voltage Range	170-280VAC		90~280V
AC Output			
Rated Power	3.5kW	5.5kW	5000W/5000VA
Rated Voltage	230VAC ± 5% @50Hz		230VAC@50Hz
Surge Power	7000VA	11000VA	10000VA
Battery			
Nominal Voltage	24VDC	48VDC	48VDC
Battery Type	Lithium/Lead-acid		Lithium/Lead-acid
Maximum AC Charge Current	80A		60A
PV Input			
Maximum PV Input Power	1500W	5500W	5000W
Number of MPPT Trackers	1	1	1
Max. PV Voc	160VDC	500VDC	500VDC
MPPT Range	30VDC - 160VDC	60VDC - 500VDC	120-450VDC
Max PV Input Current	60A	18A	18A
General Specifications			
Communications	RS232 + RS485		RS485 / RS232 / Dry Contact
Accessories included	BMS Communication Cable		BMS Communication cable, Parallel Communication Cable
Weight	7kg	7.2kg	10kg
Dimensions (WxHxD) mm	358 x 295 x 100	295 x 105 x 438	295 x 448 x 105mm

Accessories

Code	Description
HP-WIFI	Wifi Dongle for Remote Monitoring

Off-Grid Solar Inverter


FN5KS-AH1 48VDC

PV5000-3.6K 24VDC

- Power factor 1.0
- Pure Sine Wave
- Support multiple output priority
- Lithium battery BMS communication
- **FN5KS**-Parallel operation up to 9 units
- **FN5KS**-Dual AC Output to split essential & non essential loads

Code	PV5000-3.6K 24VDC	FN5KS-AH1 48VDC
AC Input		
Rated Input Voltage	230VAC	230VAC
Input Voltage Range	90-280VAC	90-280VAC
AC Output		
Rated Power	3600W/3600VA	5000W/5000VA
Rated Voltage	230VAC@50Hz	230VAC@50Hz
Surge Power	7200VA	10000VA
Battery		
Nominal Voltage	24VDC	48VDC
Battery Type	Lithium/Lead Acid	Lithium/Lead Acid
Maximum AC Charge Current	100A	80A
PV Input		
Maximum PV Input Power	5000W	6000W
Number of MPPT Trackers	1	1
Max. PV Voc	500VDC	500VDC
MPPT Range	40-450VDC	120-450VDC
Max Input PV Current	18A	18A
General Specifications		
Communication	USB/RS485/CAN	USB/RS485/CAN
Accessories Included	-	Parallel Communication Cable, USB Cable
Dimensions (WXHxD)	420 x 285 x95mm	510 x 310 x140mm

NEW

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	LUX-SNA-6K 48VDC
AC Input		
Rated Input Voltage	230VAC	
Input Voltage Range	110 - 280VAC	
AC Output		
Rated Power	5000W/5000VA	6000W/6000VA
Output Voltage	230VAC @ 50Hz	
Surge Power	10000VA	12000VA
Battery		
Nominal Voltage	51.2/48VDC	
Battery Type	Lead-acid or Lithium	
Maximum AC Charge Current	60A	140A
PV Input		
Maximum PV Input Power	3200W/3200W	4000W/4000W
Number of MPPT Trackers	2	
Max. PV Voc	480VDC	
MPPT Range	100-385VDC	120-385VDC
Max PV String Current	13A /13A	17A /17A
Max PV Charge Current	100A	140A
General Specifications		
Communication with BMS	RS485/CAN	
Accessories included	Wifi Communication Dongle	Wifi Dongle + CT
Weight	14kg	14.5kg
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

SOLAR

NEW

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

NEW

SOLAR WATER HEATING CONTROLLER IP65

MPPT Solar Water Heating Controller

Code	SWHC-4K-MAX
PV Input/Output	
Solar Max. Input Power	4000W
Solar Input Current	≤ 20A
MPPT Operating Voltage Range	120 - 340 VDC
Solar Heating Output Voltage Range	0 - 260 VAC
Solar Heating Output Current Range	≤ 20A
Rated AC	
AC Heating Rated power	4000W
AC Rated Voltage	230VAC (180 - 260VAC)
AC Rated Current	≤ 20A
Rated Load	
Load Voltage/Power	230VAC/4000W
Load Resistance	> 13Ω
General Features	
LCD Display	Yes
Max. Water Temperature	30 - 80° (Adjustable)
Temperature Sensor	YES (4m cable)
Product Dimensions	220 x 190 x 85mm

- Advanced DSP control chip, smart control
- Solar heating priority, automatic grid switching when solar insufficient.
- Separate temperature settings for solar & grid heating and time based control.
- The MPPT water heating controller is only suitable for AC Geyser Elements. (Resistive Loads only)
- Maximum Power point tracking technology
- Water Temperature Detection.

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



5kW



8kW

	Single Phase				Three Phase
Code	DEYE-H-5K 48VDC	DEYE-H-8K 48VDC	DEYE-H-12K 48VDC	DEYE-H-16K 48VDC	DEYE-H-12K-3P 48VDC
AC Data					
Rated AC Output & UPS Power	5000W	8000W	12000W	16000W	12000W
AC Output Rated Current	22.7A/21.7A	36.4A/34.8A	54.5A/52.2A	72.7A/69.6A	18.2A/17.4A
Max. AC Passthrough Current	35A	50A	100A	100A	45A
Input/Output Voltage	230VAC @50Hz				230/400VAC @50Hz
PV String Input					
Max. DC Input Power	6500W	10400W	15600W	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	26A + 26A + 26A	22A + 13A
No. of MPPT Trackers	2	2	3	3	2
No.of Strings Per MPPT Tracker	1 + 1	2 + 2	2 + 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	220A	290A	240A
Max. Discharging Current	120A	190A	220A	290A	240A
General Data					
Communication with BMS	RS485; CAN				
Accessories Included	WiFi Communication Dongle & CT				
Weight	24kg	32kg	48.5kg	48.5kg	33.6kg
Dimensions mm (WxHxD)	330 × 580 × 232	420 × 670 × 233	464 × 762 × 282	464 × 799 × 300	422 × 702 × 281

- Colourful Touch LCD, IP65 Protection
- 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-20K-3P HV	DEYE-H-30K-3P HV	DEYE-H-50K-3P HV
AC Data			
Rated AC Output & UPS Power	20000W	30000W	50000W
AC Input/Output Rated Current	30.4/29A	45.5/43.5A	75.8A/72.5A
Max. AC Passthrough Current	80A	200A	200A
Input/Output Voltage	230/400VAC		
PV String Input			
Max. DC Input Power	26000W	39000W	65000W
PV Input Voltage	180-1000VDC		
MPPT Range	150-850VDC		
PV Input Current per MPPT	26+26	36+36+36	36+36+36+36
No. of MPPT Trackers	2	3	4
No. of Strings per MPPT Tracker	2+2	2+2+2	2+2+2+2
Battery Data			
Battery Type	Lithium-Ion		
Battery Voltage Range	160-700VDC	160-800VDC	160-800VDC
Max. Charging Current	37A	100A	50A+50A
Max. Discharging Current	37A	100A	50A+50A
General Data			
Communication with BMS	RS485/CAN/RS232		
Accessories Included	WiFi Communication Dongle & CT		
Weight	30.5kg	80kg	80kg
Size (WxHxD)	408 x 638 x 237mm	527 x 894 x 294mm	527 x 894 x 294mm

SOLAR 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
- PV input
- AC output
- 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
- PV input
- AC output
- 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



HYLH-CK-1K-1280WH



HYLH-EK-3K-2.5KWH

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-EK-3K-2.5KWH
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	SPF12-100	LPF26V-100-2.5K-WM
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 +/-



HYLH-CK-1K-108-BP



HYLH-EK-3K-2.5KWH-BP

Solar Ready Easy Install Backup Kits

Code	HYLH-CK-1K-108-BP	HYLH-EK-3K-2.5KWH-BP
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	SPF12-100	LPF26V-100-2.5K-WM
Useable Battery Capacity	1280Wh	2560Wh

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

Kit includes: Battery fuse protection

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

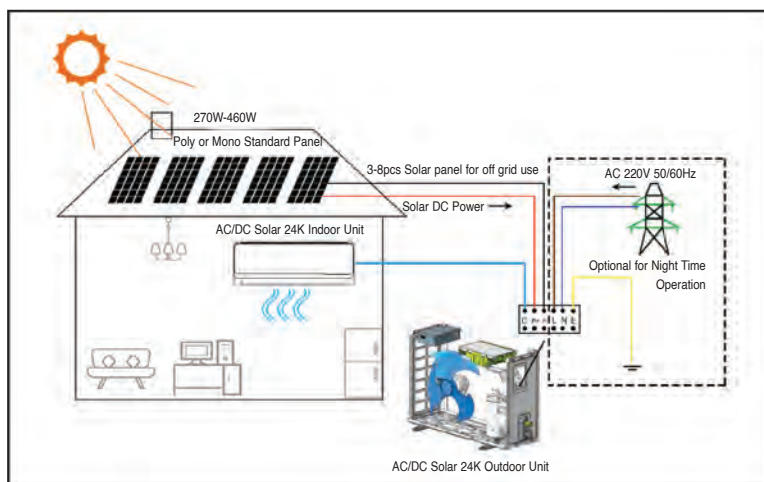
Air Purification

- 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	W	3510(900-3900)	5070(1200-6000)	6450(1800-7900)
Capacity (T1)	BTU	12000(3000-13300)	17300(4100-20400)	22000(6100-27000)
Power Input	W	940(190-1270)	1400(220-2100)	1790(300-3200)
Rated Heating	W	4100(1000-4500)	6100(1200-23000)	7800(1800-9100)
Capacity	BTU	14000(3000-4500)	20800(4100-23000)	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	mm	840 x 205 x 295	1080 x 330 x 237	1080 x 330 x 237
Dimension (WxHxD)	kg	9.0/12.5	15.0/18.5	15.0/18.5
Outdoor Unit	mm	802 x 564 x 323	802 x 564 x 323	900 x 700 x 337
Dimension (WxHxD)	kg	33.5/37.5	37/42.0	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

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



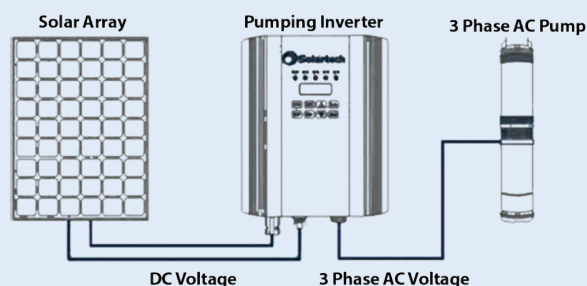
PV Panels



Inverter



AC Pump



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	PB1500L	7A	1.1-1.5	280-350V
PS1100-2	1.10kW	Solar Pumping System	54 - 73m	10-7.5m³/day	8 x 260W HV	RHV-260	PB2200L	11A	2.2	280-350V
PS1500-2	1.50kW	Solar Pumping System	68 - 95m	10-7.5m³/day	10 x 260W HV	RHV-260	PB3700H	9A	3-3.7	500-600V
PS2200-1	2.20kW	Solar Pumping System	91 - 133m	10-7.5m³/day	12 x 300W HV	RHV-300	PB5500H	13A	4-4.5	500-600V
PS3000-1	3.7kW	Solar Pumping System	118 - 169m	15-10m³/day	18 x 260W HV	RHV-260				
PS4000-1	5.5kW	Solar Pumping System	155 - 207m	15-10m³/day	27 x 260W HV	RHV-260				

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

AC/DC FU9000 DRIVES

Dual Input AC/DC Solar Drive - FU9000SI Series



- Same Basic Functionality as **FU9000D**
- 99% Efficient MPPT
- Remote Monitoring using ACDC Smart App (with Optional GSM Communication Card)
- Allows Simultaneous AC and DC Input

EES

Code	Max. PV Voc	DC Input Voltage Range	Rated Output Power	Max. PV Isc	Rated Output Current	Dimensions (mm) W x H x D
Single Phase Input 220-240V, Three Phase Output 3 x 230V						
FU9000SI-0R7G-S2	400VDC	200~400VDC	0.75kW	9.3A	4.2A	126 x 186 x 161
FU9000SI-1R5G-S2	400VDC	200~400VDC	1.5kW	15.7A	7.5A	126 x 186 x 161
FU9000SI-2R2G-S2	400VDC	200~400VDC	2.2kW	24A	10A	126 x 186 x 161
Three Phase Input 380-480V, Three Phase Output 3 x 400V						
FU9000SI-0R7G-4	800VDC	300~750VDC	0.75kW	3.4A	2.5A	126 x 186 x 161
FU9000SI-1R5G-4	800VDC	300~750VDC	1.5kW	5A	4.5A	126 x 186 x 161
FU9000SI-2R2G-4	800VDC	300~750VDC	2.2kW	5.8A	5.5A	126 x 186 x 161
FU9000SI-004G-4	800VDC	300~750VDC	4kW	13.5A	9.5A	126 x 186 x 161
FU9000SI-5R5G-4	800VDC	300~750VDC	5.5kW	19.5A	14A	146 x 256 x 172
FU9000SI-7R5G-4	800VDC	300~750VDC	7.5kW	25A	18.5A	146 x 256 x 172
FU9000SI-011G-4	800VDC	300~750VDC	11kW	32A	25A	171 x 321 x 201
FU9000SI-015G-4	800VDC	300~750VDC	15kW	40A	32A	171 x 321 x 201
FU9000SI-018G-4	800VDC	300~750VDC	18.5kW	47A	38A	171 x 321 x 201

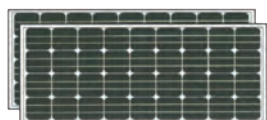
NOTE:

Please contact our Panel Workshop for Drives built into Panels, including solar, combiner, switchgear and protection.

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	18m³/h	12m	2" x 2"	80W x 14
TSSP25-15-110/1200	110VDC	1200W	25m³/h	15m	2½" x 2½"	100W x 16
TSSP30-20-110/1500	110VDC	1500W	30m³/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	12m³/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	2.0m³/h	15m	1" x 1"	80W x 2
TSSGJ3.2-18-24/120	24VDC	120W	3.2m³/h	18m	1" x 1"	80W x 2
TSQB2.2-37-36/210	36VDC	210W	2.2m³/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	1.9m³/h	23m	3"	90W x 3	3/4"
3TSC-2-80-48/500	48VDC	500W	2.0m³/h	70m	3"	140W x 4	3/4"
3TSC-3.5-50-48/500	48VDC	500W	3.5m³/h	34m	3"	140W x 4	3/4"
4TSC-4-57-48/500	48VDC	500W	4.0m³/h	57m	4"	170W x 4	1¼"
4TSC-12.5-44-110/1000	110VDC	1000W	12.5m³/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	0.5m³/h	28m	3"	100W x 1	3/4"
3TSS-0.76-55-24/120	24VDC	120W	0.76m³/h	55m	3"	90W x 2	3/4"
3TSS-1.25-80-36/210	36VDC	210W	1.25m³/h	90m	3"	90W x 3	3/4"
4TSS-2.5-70-48/500	48VDC	500W	2.5m³/h	80m	4"	170W x 4	1"
4TSS-2.5-140-110/1000	110VDC	1000W	2.5m³/h	140m	4"	140W x 14	1"
5TSS-5-80-110/1200	110VDC	1200W	5m³/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



SOLAR WATER HEATING



- 25mm Hail Resistance
- Freeze Resistance

Low Pressure Solar Geysers IPX4

Code	Tank Capacity	Weight	Collector Area	No.Of Tubes	System Selection	Roof Type
ASLP-12	110 l	± 170kg	0.92m ²	12	Suitable for Smaller Homes	Pitched & Flat Roof
ASLP-15	150 l	± 235kg	1.2m ²	15	1-3 People	
ASLP-20	200 l	± 303kg	1.63m ²	20	3-4 People	
ASLP-30	300 l	± 454kg	2.4m ²	30	4-5 People	

Systems Include

- System Frame & Mounting Accessories (Flat & Pitch Roof 2 in 1)
- Solar Collector (Vacuum Tubes)
- Main Tank (Including Drain Cock)
- Roof Bracket / Hooks
- Cistern Tank
- Tempering Valve



- Stainless Steel Tank
- Tough Corrosion Resistant Zinc Frame
- 35mm Hail Resistance
- Freeze Resistance
- High Pressure Water heater rated at 400kPA

High Pressure Solar Geysers IPX4

Code	Tank Capacity	Weight	Collector Area	No.Of Tubes	System Selection	Roof Type
APIHP-12	110 l	± 176kg	0.92m ²	12	1-2 People	Pitched & Flat Roof
APIHP-15	150 l	± 235kg	1.2m ²	15	2-3 People	
APIHP-20	200 l	± 320kg	1.63m ²	20	3-4 People	
APIHP-30	300 l	± 487kg	2.4m ²	30	4-5 People	

Systems Include

- System Frame & Mounting Accessories (Flat and Pitch Roof 2 in 1)
- Safety Valve
- Main Tank (Including Drain Cock)
- Tempering Valve
- Roof Bracket / Hooks
- Anode
- Solar Collector (Vacuum Tubes)
- All installations for both High Pressure and Low Pressure geysers must be done by a certified Technician / Plumber for safety and regulation compliance.



Low Pressure System - SUS304-2B Inner Tank

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 - SUS316 Inner Tank

ASHP-1858-10	12 Tubes	100l	1.68m ²	805mm
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Accessories

Code	Description
SL6-C1301BX003	Mix/Tempering Valve

- Hail resistance: 40mm

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

Note: Order Mixing Valve Separately



Indirect Solar Water Heating

Code	Tank Capacity	Weight	Collector Area	Roof Type
ID-100L-HP-PR	100 l	± 153kg	1x1.57m ²	Pitched
ID-200L-HP-PR	200 l	± 268kg	2x1.57m ²	
ID-300L-HP-PR	300 l	± 388kg	3x1.57m ²	

Systems Include

- Collector
- Main Tank + Drain Cock
- Propylene Glycol fluid
- TP Valve
- Roof Bracket / Hooks
- Tempering Valve

Features

- Matte Black Freeze Protected Panels with anodized Aluminium
- Frame Size: (L x W x D: 1800 x 850 x 95)
- High Pressure Water heater rated at 400kPA
- Double Jacket Polyurethane Heat Exchange for Minimum Heat Loss
- SANS 151 Tested
- Can be Configured In a Split Thermosiphon Arrangement
- Sacrificial Anode for corrosion protection and hygiene
- 2 Extra Fluid Connections and back up element for use as a conventional electric water heater and as a solar water heater

- All installations for both High Pressure and Low Pressure geysers must be done by a certified Technician / Plumber for safety and regulation compliance.