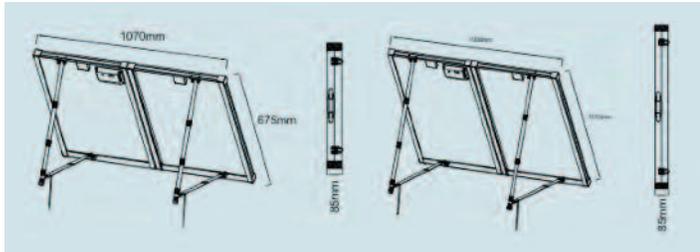


PORTABLE SOLAR PANEL CHARGING SYSTEMS



12V Portable - Foldable Solar Panel Charging Systems

The Greenergy-Technology SLPF Series of portable solar chargers is in its third generation. Originally designed for humanitarian efforts in Africa these products are widely used in a wide range of applications including; ...RV, camping, boating, hunting, disaster recovery and military.

Kit comes with:

Carry Case. For safe transportation and storage these kits come with an aluminum case.

Telescopic Adjustable Legs. Easily adjusted allowing for maximum power generation based on location and time of day.

Smart PWM Controller. Safely regulates battery charging. LED display indicates state of charge and a toggle switch allows for lead-acid and gel battery charging.

Battery Clamp and Ring Terminal.

Carry Handle and Locking Fasteners. For easy handling and fasteners lock the panel shut while in transit.

SLP-090-12S 90W/12V Charging Kit (35 or 50mm frame available)

SLP-130-12S 130W/12V Charging Kit (35 or 50mm frame available)

SOLAR CHARGING KITS



12V Solar Trickle Charger Kits

Ideal for many outdoor applications such as Camping, Hunting, Fishing, Boating, Caravanning, RV, and more!

Kit includes:

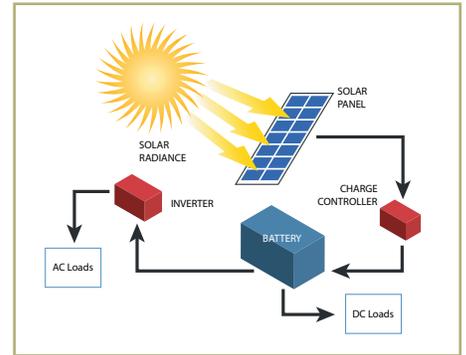
- Multicrystalline solar panel
- Blocking diode in junction box
- Battery clamps and leads

SLCK-010-12 10W/12V, 302mm X 357mm X 30mm

SLCK-040-12 40W/12V, 27" X 22" X 1.5"



- **Heavy-duty anodized Aluminum frame**
- **Service life of more than 25 years**
 - **Water resistant**
 - **Multicrystalline cells**



A heavy-duty anodized aluminum frame provides strength and convenient mounting access. Cells are laminated between high transmissivity, low-iron, 3mm tempered

glass, tedlar-polyester-tedlar (TPT) material by two sheets of ethylene vinyl acetate (EVA). This protects against moisture penetrating into the module.

5W SOLAR PANEL

Output Power (peak): 5W
 Max Power Voltage (Vmp): 17.6v
 Max Power Current (Imp): 0.278A
 Open Circuit Voltage (Voc): 21.6v
 Short Circuit Current (ISC): 0.306A
 Working Temperature: -45C to +85C
 Tolerance: +/- 5%
 Size: 265x220x18mm
 Recommended Controller: 12V-3A

SCP5W12V

10W SOLAR PANEL

Output Power (peak): 10W
 Max Power Voltage (Vmp): 17.6v
 Max Power Current (Imp): 0.57A
 Open Circuit Voltage (Voc): 21.6v
 Short Circuit Current (ISC): 0.61A
 Working Temperature: -45C to +85C
 Tolerance: +/- 5%
 Size: 356x301x28mm
 Recommended Controller: 12V-3A

SCP10W12V

20W SOLAR PANEL

Output Power (peak): 20W
 Max Power Voltage (Vmp): 17.6v
 Max Power Current (Imp): 1.14A
 Open Circuit Voltage (Voc): 21.6v
 Short Circuit Current (ISC): 1.23A
 Working Temperature: -45C to +85C
 Tolerance: +/- 5%
 Size: 530x340x28mm
 Recommended Controller: 12V-5A

SCP20W12V

30W SOLAR PANEL

Output Power (peak): 30W
 Max Power Voltage (Vmp): 17.6v
 Max Power Current (Imp): 1.7A
 Open Circuit Voltage (Voc): 21.6v
 Short Circuit Current (ISC): 1.84A
 Working Temperature: -45C to +85C
 Tolerance: +/- 5%
 Size: 800x375x32mm
 Recommended Controller: 12V-10A

SCP30W12V

55W SOLAR PANEL

Output Power (peak): 55W
 Max Power Voltage (Vmp): 17.6v
 Max Power Current (Imp): 2.84A
 Open Circuit Voltage (Voc): 21.6v
 Short Circuit Current (ISC): 3.07A
 Working Temperature: -45C to +85C
 Tolerance: +/- 5%
 Size: 648x673x45mm
 Recommended Controller: 12V-10A

SCP55W12V

85W SOLAR PANEL

Output Power (peak): 85W
 Max Power Voltage (Vmp): 17.2v
 Max Power Current (Imp): 4.675A
 Open Circuit Voltage (Voc): 21.6v
 Short Circuit Current (ISC): 5.17A
 Working Temperature: -45C to +85C
 Tolerance: +/- 5%
 Size: 940x675x30mm
 Recommended Controller:

SCP85W12V

100W SOLAR PANEL

Output Power (peak): 100W
 Max Power Voltage (Vmp): 17.2v
 Max Power Current (Imp): 5.81A
 Open Circuit Voltage (Voc): 21.6v
 Short Circuit Current (ISC): 6.46A
 Working Temperature: -45C to +85C
 Tolerance: +/- 5%
 Size: 1150x675x30mm
 Recommended Controller:

SCP100W12V

120W SOLAR PANEL

Output Power (peak): 120W
 Max Power Voltage (Vmp): 17.2v
 Max Power Current (Imp): 7.56A
 Open Circuit Voltage (Voc): 21.6v
 Short Circuit Current (ISC): 8.36A
 Working Temperature: -45C to +85C
 Tolerance: +/- 5%
 Size: 1500x675x35mm
 Recommended Controller:

SCP120W12V

140W SOLAR PANEL

Output Power (peak): 140W
 Max Power Voltage (Vmp): 17.2v
 Max Power Current (Imp): 7.56A
 Open Circuit Voltage (Voc): 21.6v
 Short Circuit Current (ISC): 8.36A
 Working Temperature: -45C to +85C
 Tolerance: +/- 5%
 Size: 1500x675x30mm
 Recommended Controller:

SCP140W12V

(Solar panels continued on next page)



CMP-1210A, CMP-1220A

These solar charge controllers are especially designed utilizing industrial grade MCU SCM with high-performance, efficiency and excellent quality. The CMP-1210A & CMP-1220A are designed for home solar power systems as well as small solar power stations. Available in 10A & 20A in 12/24V.

Specifications	CMP-1210A	CMP-1220A
Rated Voltage	12/24V	12/24V
Rated Current	10A	20A
Absorption Voltage	14.4V/28.8V ± 0.2 V (2 hrs)	
Float Voltage	13.8V/27.6V ± 0.2 V	
Low Voltage Disconnection	10.7V /21.4V ± 0.2 V	
Low Voltage Reconnection	12.6V /25.2V ± 0.2 V	
Over-Voltage Disconnection	15.5V /31 V	
Over-Voltage Reconnection	15.0V /30 V	
Loop Voltage Drop	<0.3 V	
Self-consumption	<15 m A	
Operating Temp	-10°C~ +55°C	
Size	168mm x 88mm x 34mm	



CMP-GP2024, CMP-GP3024

The GP series controller is an intelligent, multipurpose solar charge and discharge controller. User friendly LCD display shows system status at all times. This controller features various control parameters and can be set to meet the application requirements. Available in 20A & 30A in 12/24V.

Specifications	CMP-GP2024	CMP-GP3024
Rated Voltage	12/24V	12/24V
Rated Current	20A	30A
Float Voltage	13.8V/27.6V	
Low Voltage Disconnection (LVD)	10.7V/21.4V	
Low Voltage Reconnection (LVR)	12.6V/25.2V	
Self-consumption	≤13mA	
Temp. Compensation	-4mV/Cell/°C (Custom)	
Operating Temperature	-20°C~60°C	
Storage Temperature	-30°C~70°C	
Humidity Requirement	10%~90%, no condensation	
Size	88 mm x 160 mm x 37 mm	
Mounting Hole Spacing	64 mm x 150 mm ---°5	
Weight	230g	



CMP-MPPT2024

The most important feature of this controller is intelligent tracking input voltage from solar panel. This ensures the solar panel is always working at Maximum Power Point of V-A curve. This MPPT controller can increase charging efficiency from solar panel by up to 30%. Available in 20A in 12V & 24V

Specifications	CMP-MPPT2024
Solar panel input voltage	≤70V
MPPT Voltage Range	12V~70V (12V)
	24V~70V (24V)
Input Loads	1 load
Rated Voltage	12V/24V
Rated Charge Current	20A
Rated Discharge Current	20A
Self-consumption	≤15mA
Charging Mode	3-stage (Bulk/ Absorption/ Float)
Over Voltage Protection	16V / 32V
Float Voltage	13.8V / 27.6V
Absorbing Charging Voltage	14.4V / 28.8V
Low Voltage Protection(LVD)	11.5V / 23.0V
Low Voltage Reconnection(LVR)	12.6V / 25.2V
Temperature Compensation	-4mV / Cell / °C
The Highest Efficiency	97%
Cooling Way	passive cooling
Made of Connection	port
Operating Temperature	-10°C~+50°C
Storage Temperature	-30°C~+80°C
Humidity Requirements	0~90%, no condensation
Dimension(L x W x H)	188 x 118.5 x 54.5 mm
Weight	0.8Kg



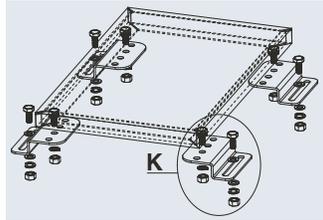
According to the voltage of the battery, controller will adjust the charging current and decided if to supply power to the loads.
 1. Generally keeps the battery on full voltage condition
 2. Prevents the battery from over-charging or discharging
 3. Prevents the battery from supplying power to solar panels during nights

SS1203A 3AMP

SINGLE PANEL UNIVERSAL/POLE/WALL MOUNTING BRACKET KITS



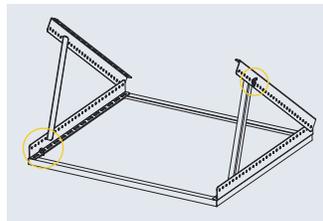
The CSLB series mounting kits are designed for use with the CES SOLAR series solar panels, and can be easily adapted to work with most other brands of solar panels. All kits include stainless steel hardware. Each kit is designed for specific applications such as RV's, boats, small sheds, garages or any instance where an off grid solar panel is needed. U-bolts and/or steel clamps are not included.



CSLB-0102 – Universal Flat Mount Bracket Kit

Mounting Type	Universal Mount
Module type*	Universal, works with most panel brands and types
Number of modules	Mounts 1 panel
Setting Angle	Fixed
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Aluminum
Lifetime	20 years

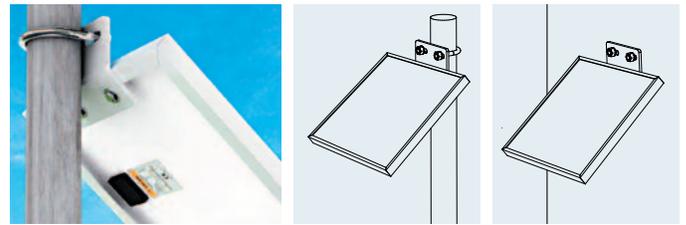
* When using this kit with another brand of panel you may need to change the module bolts to suit the mounting holes on the panel.



CSLB-0103 - Tilt Mount Bracket Kit

Mounting Type	Tilt
Module type*	SCP130W12V
Number of modules	Mounts 1 panel
Setting Angle	20° - 90°
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Aluminum
Lifetime	1 year

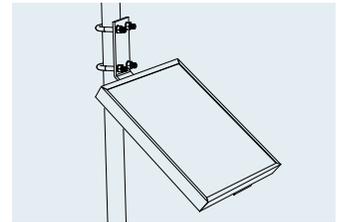
* This kit may be used with another brand of panel with slight modification.



CSLB-0119 – Side of Pole/Wall Mount Bracket

Mounting Type	Side of Pole/Wall mount
Module type*	SCP05W12V
Number of modules	Mounts 1 panel
Setting Angle	Fixed
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Aluminum
Lifetime	5 years

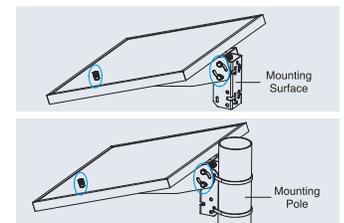
* U-Bolts not provided with this kit.



CSLB-0120 – Side of Pole/Wall Mount Bracket

Mounting Type	Side of Pole/Wall mount
Module type*	SCP10W12V, SCP15W12V, SCP20W12V
Number of modules	Mounts 1 panel
Setting Angle	Fixed
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Aluminum
Lifetime	5 years

* U-Bolts not provided with this kit.



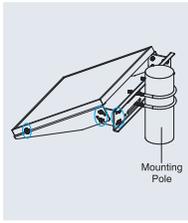
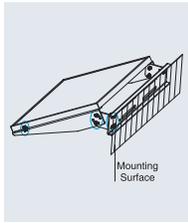
CSLB-0112 – Side of Pole/Wall Mount Bracket

Mounting Type	Side of Pole/Wall mount
Module type*	SCP10W12V, SCP15W12V, SCP20W12V, SCP30W12V
Number of modules	Mounts 1 panel
Setting Angle	20° - 90°
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Aluminum
Lifetime	1 year

U-Bolts or steel clamps not provided with this kit.

* When using this kit with another brand of panel you may need to change the module bolts to suit the mounting holes on the panel.

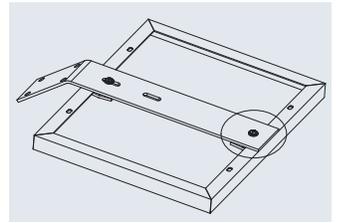
SINGLE PANEL UNIVERSAL/POLE/WALL MOUNTING BRACKET KITS (Continued)



CSLB-0113 – Side of Pole/Wall Mount Bracket

Mounting Type	Side of Pole/Wall mount
Module type*	SCP40W12V, SCP50W12V, SCP80W12V
Number of modules	Mounts 1 panel
Setting Angle	0° - 90°
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Aluminum
Lifetime	5 years

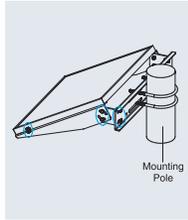
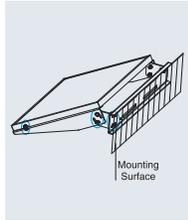
*U-Bolts or steel clamps not provided with this kit.
* When using this kit with another brand of panel you may need to change the module bolts to suit the mounting holes on the panel.*



CSLBRKT-02 – L-Style Panel Mount

Mounting Type	L-Style Mount
Module type*	SCP90W10V, SCP15W12V, SCP20W12V, SCP20W12V,
Number of modules	Mounts 1 panel
Setting Angle	0° - 90°
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Anodized Aluminum
Lifetime	5 years

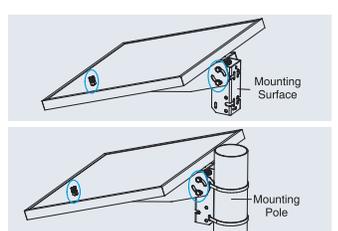
*U-Bolts or molly bolts are not provided with this kit.
* When using this kit with another brand of panel you may need to change the module bolts to suit the mounting holes on the panel.*



CSLB-0114 – Side of Pole/Wall Mount Bracket

Mounting Type	Side of Pole/Wall mount
Module type*	SCP90W12V, SCP90W12V, SCP100W12V, SCP120W12V, SCP130W12V
Number of modules	Mounts 1 panel
Setting Angle	0° - 90°
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Aluminum
Lifetime	5 years

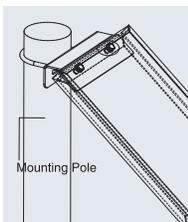
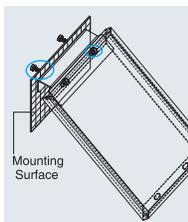
*U-Bolts or steel clamps are not provided with this kit.
* When using this kit with another brand of panel you may need to change the module bolts to suit the mounting holes on the panel.*



CSLBRKT-03 – Universal Flat & Pole Mount Kit

Mounting Type	Universal flat & pole mount
Module type*	Universal, works with most panel brands and types
Number of modules	Mounts 1 panel
Setting Angle	Fixed
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Aluminum
Lifetime	20 years

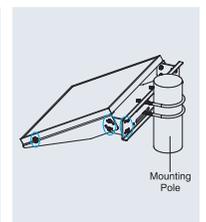
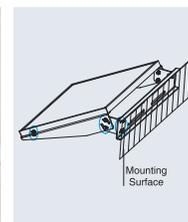
*U-Bolts or steel clamps are not provided with this kit.
* When using this kit with another brand of panel you may need to change the module bolts to suit the mounting holes on the panel.*



CSLBRKT-01 – Side of Pole/Wall Mount Bracket

Mounting Type	Side of Pole/Wall mount
Module type*	SCP05W12V
Number of modules	Mounts 1 panel
Setting Angle	Fixed
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Aluminum
Lifetime	5 years

*U-Bolts or steel clamps are not provided with this kit.
* When using this kit with another brand of panel you may need to change the module bolts to suit the mounting holes on the panel.*



CSLBRKT-04 – Side of Pole/Wall Mount Bracket

Mounting Type	Side of Pole/Wall mount
Module type*	SCP50W12V, SCP80W12V
Number of modules	Mounts 1 panel
Setting Angle	0° - 90°
Wind Load	100km/Hr
Snow Load	1.1kN/m ²
Material	Aluminum
Lifetime	20 year

*U-Bolts or steel clamps are not provided with this kit.
* When using this kit with another brand of panel you may need to change the module bolts to suit the mounting holes on the panel.*