Solargear SG12-M100SPM Solar Panel

Operating Instructions

Thank you very much for purchasing our product. Please read this manual thoroughly before using this product, and retain it for future reference in order to use the product safely, and to make the most of its features. If you use other products together with this product, please read the operating instructions of those products thoroughly before use as well.

Product Summary

Mobile PV systems with mono crystalline flexible solar panels and LiFePO4 battery compartments designed for powering a broad range of appliances. Composed of ultra-thin, light yet impact resistant and highly efficient solar panels and compact, lightweight, weather resistant and long-life battery compartments for ultimate versatility, expandability, portability, weather resistance and durability in business, disaster preparedness, leisure and everyday living.

Applications

Charging the built-in LiFePO4 battery by sunlight, and powering a broad range of appliances through AC100V pure sine wave (inverter outlet, dust and water proof connectors), DC5V (USB) and DC12V (charge controller terminals, dust and water proof connectors) output. A built-in nightlight function can control DC12V load such as LED light at night and is widely programmable

- A light yet impact resistant flexible solar panel.
- Highly efficient mono crystalline solar cells.
- ●IP68 dust and water proof connectors mating with battery compartments, Extension
- Cables, Output Cables and DC Power Cables for weather resistant outdoor installations. A detachable mil-spec Cordura Nylon shoulder strap and mounting holes with grommets for easy carrying and a variety of mounts

nportant Safety Instruction

Please follow the instructions below. Failure to comply may damage this device, Caution Please follow use insuducions below. I diverse of the participation of the built-in battery to burst or result in leakage, fire and injury.

Charge only the specified batteries.

- Do not allow metal objects to touch the input/output connectors.
- Do not allow metal objects to touch the terminals of the batteries.
- Do not short circuit, or disassemble this device.
- Do not put this device into water.
- Do not use or leave this device near fire.
- Do not use or leave this device in enclosed spaces.
- Do not use or leave this device in unstable high places.
- Stop charging in case of leakage from the battery.
- Stop charging in case the battery becomes unusually hot.

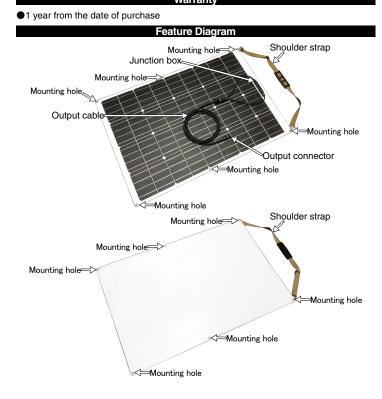
Important Not

We are not responsible for any physical damage to appliances, any loss of memorized data, any interruption of business, and any loss of business opportunities caused by this product.

Specifications
100.0W (18.0V 5.56A)
21.6V
6.66A
-40 - 80°C
1070X530X approx. 2.8mm (excl. protruding parts)
approx. 2.0kg (excl. accessories)
8mm grommet X 6
3m jacket cable with IP68 dust and water proof connector
a bypass diode
a detachable mil-spec Cordura Nylon shoulder strap

*Panel temperature 25°C AM1.5 1kW/m2

Warranty



How to Use

Connecting the battery compartment

- 1 Connect the output cable of this product to the battery compartment. Screw anticlockwise the cover off one of the dust and water proof connectors. Align the lacksquaremarks of both connectors and screw the ring clockwise tightly by hand.
- Note: Pull the connectors lightly to make sure they are locked.



2 Screw the ring anticlockwise to disconnect the connectors. Screw clockwise the cover on the connectors tightly by hand.



Charging the built-in Batteries

1 Face the solar panel towards the sunlight, and charge the built-in battery. To mount the solar panel on the fence or on the ground, s-hooks, fixing ties or fixing pegs can be used. For the most efficient charging, adjust the direction and angle of the solar panel 90 degrees in opposition to the sun rays





- Note: The whole area of the solar panel needs to be irradiated. If there is a shaded area on it, the battery cannot be charged efficiently due to low output current.
- 2 You can connect 2 or more solar panels to the battery compartment for quick charging. Please refer to the operating instructions manual of the battery compartment for the maximum number of the panels to be connected.

To avoid damaging the battery compartment, do not connect more than ▲Caution the maximum number of solar panels



Powering Appliances

Please read the operating instructions manual of the battery compartment

Clean this product with a dried or dampened cloth. Do not use oil, solvents, petrol or paint thinners for cleaning.

STUDIO DEL SOLE INC.

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Design and specifications are subject to change without notice

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