



160W SEMI FLEXIBLE SOLAR PANEL

INSTRUCTION MANUAL



Please read this manual carefully before using and retain for future reference.

160W SEMI FLEXIBLE SOLAR PANEL



SAFETY INFORMATION

- Keep the solar panel clean at all times (always check connectors to ensure they're free of grit before plugging them in).
- This appliance is not intended to be used by people (including children) with reduced physical or mental capabilities, or those who are under the influence of drugs or alcohol.
- All lead-acid batteries produce harmful, explosive gases. The battery should be mounted in a well-ventilated area, as far as possible from any ignition sources. Do NOT smoke or have a naked flame in the vicinity of the battery under charge.
- Ensure nothing sharp or heavy could potentially damage the solar panel during transport or storage.
- Only use the solar panel to charge 12V batteries.
- Do NOT use the solar panel to charge non-rechargeable batteries. Doing so may result in harm to the user and/or damage the solar panel and controller.
- Do NOT use different types of panels on the same electrical system.

INCLUDED IN THE BOX

1 X SEMI-FLEXIBLE SOLAR PANEL

INSTRUCTIONS FOR USING THE SOLAR PANEL

UNPACKING YOUR SOLAR PANEL

- Find a suitable location to unpack the solar panel, away from sharp objects, liquids and other hazards that could damage your solar panel. Ensure there is sufficient space for the solar panel to be spread out fully.
- Take care with the panel making sure it does not bend or flex excessively or repetitively as this may cause irreversible damage to the panel, reducing overall efficiency and weakening the panels internal structure.

MOUNTING YOUR SOLAR PANEL

- When mounting the panel ensure air is able to pass over at least the surface that is exposed to sunlight to increase the panels performance.
- Mount on either a flat or slightly curved surface that can fully support the entire panel.

SOLAR PANEL SPECIFICATIONS

160W SOLAR PANEL

RATED MAXIMUM POWER (PM)	160W
TOLERANCE	± 3%
VOLTAGE AT P_{MAX} (V_{MP})	18.83V
CURRENT AT P_{MAX} (I_{MP})	8.50A
OPEN-CIRCUIT VOLTAGE (V_{OC})	22.15V
SHORT-CIRCUIT CURRENT (I_{SC})	8.99A
NORMAL OPERATING CELL TEMP (NOCT)	47 ± 2°C
MAXIMUM SYSTEM VOLTAGE	1000VDC
MAXIMUM SERIES FUSE RATING	20A
OPERATING TEMPERATURE	-40°C to +85°C
APPLICATION CLASS	Class A

WARRANTY STATEMENT

Products may include a warranty against defects for the period stated on the product, in addition to other rights you have at law. Return any defective product and proof of purchase to your local branch for assessment, repair or replacement. Our goods come with guarantees that cannot be excluded under the Chinese Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

