■ 1. Disclaimer

Thank you for purchasing our product. In order to use this product correctly and safely, please read the instruction manual and related precautions carefully before use. Any improper use may cause serious injury to the user or others. Please strictly comply with all the rules of this manual. If you have any questions, please feel free to contact us.

Contact Us: ...@ALLPOWERS.com

Email: support@allpowers.com

User Manual

Thank you for purchasing our product. In order to use this product correctly and safely, please read the instruction manual and related precautions carefully before use. Any improper use may cause serious injury to the user or others. Please strictly comply with all the rules of this manual. If you have any questions, please feel free to contact us.

Contact Us: ...@allpowers.com

Email: support@allpowers.com

■ 2. General Safety Information

- Safe production, systems must only be installed by qualified personnel who understand the safety requirements and have the skills to work on electrical systems. Never allow children or unqualified persons to assemble, install or operate the system. Never allow children to play with the system.
- When exposed to direct sunlight, a single module may generate DC voltages exceeding 30 volts and DC currents over 8 amps. Use caution when handling modules and balance of system components. Always disconnecting wires that are connected to the module before disconnecting the module from the system.
- Please operate with specialist tools. Otherwise it may give rise to further issues. It is the responsibility of the user to use the tools correctly.
- If the cable includes current cable among the DC electricity, and they are designed to be connected to the module, the connectors must be connected to the module. The current carrying cable and modules shall be connected to the appropriate connectors before the connectors are connected to the system.
- Do not attempt to disassemble the module, or remove any attached nameplates or barcode labels.
- Do not disassemble the junction box. Doing so will void the warranty. Do not open the bypass diodes.
- Do not expose the surface of the module to sandpaper surface that is artificially roughened.
- Do not touch the module surface or frame with bare hands during installation and operation. Module surfaces may be hot enough to cause burns.
- Do not use or install broken modules. Contact with broken modules may cause electric shock.
- Do not touch live terminals. Do not touch uninsulated wires or terminals. Contact with electrical circuits may cause electric shock.
- Do not wear conductive items such as jewelry, watches, or metal-framed eyeglasses while working with the module. Wearing conductive items may cause electric shock.
- Under normal sunlight conditions, the currents and voltages generated by the module may be different from the values listed on the nameplate. Use 1.25 times the nameplate current rating when determining the ampacity of conductors and the ratings of fuses connected in series to modules.

■ 3. Installation Procedures and Precautions

Installation must be performed in accordance with all the local regulations on the package and Manual. The contents are listed as follows:



A parallel connection is shown in the diagram:



Caution:

- Please shade the solar panels mounted in unlimited off-sound-tracks, indoing, or other dark areas.
- Adhesive: Use adhesive that has no chemical reaction with the surface material of the module.

■ 4.1 Unpacking and Precautions

Carefully unpack the solar panel and check that all components on the package are present.



■ 4.2 Preinstallation Requirements

Ensure that suitable outside, site ground system technical requirements and that the solar panel is installed in accordance with the relevant electrical regulations. The Module can be connected in series to increase voltage or in parallel to increase current. However, the maximum voltage of the series string must not exceed the maximum system voltage of the module. In addition, the parallel connection of more than two strings must be individually protected with a fuse, as specified by the respective fuse ratings.

A series connection is shown in the diagram:

A parallel connection is shown in the diagram:



Caution:

- Please shade the solar panels mounted in unlimited off-sound-tracks, indoing, or other dark areas.
- Adhesive: Use adhesive that has no chemical reaction with the surface material of the module.

■ 4.3 Installation Diagram



■ 5. Safety Precautions and Maintenance

- When light shines on the light-receiving surface of the solar module, the solar module will generate DC voltage and current. Please do not touch the positive and negative terminals of the solar module with your hands or skin to avoid electric shock.
- Please do not touch the terminal box of the solar module to avoid electric shock.
- Please do not disassemble the solar module without permission.
- Please do not damage the backplane of the solar module to avoid electric shock.
- Please do not touch the surface of the module to avoid burns caused by high temperature.
- Please do not touch the surface of the module to avoid burns caused by high temperature.
- Please do not touch the surface of the module to avoid burns caused by high temperature