ALLPOWERS

100W Flexible Solar Panel

Model: AP-SP-036

CE FC RoHS

User Manual

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

Contact Us: ⚠@allpowers.com

Email: support@allpowers.com

1. Disclaimer

- Please read this manual as well as the conditions or methods for the installation, operation, use and maintenance of the product before the product is used. We consider it as ALLPOWERS assumes no responsibility for such accidents caused by violation of the instructions in this manual, including but not limited to property damage, injury or death.
- ALLPOWERS assumes no responsibility for any damage to the product or any rights that may result from the violation of the installation methods, accessories, etc. that are not recommended in the instructions in this manual.
- The product inspection and installation instructions in the manual are for reference only. Please refer to the actual product for the specific product. ALLPOWERS is not committed to be reliable; however, the harmonics and inconsistencies in some products may not be avoided. Please refer to the actual product for the specific product.
- Please read this manual carefully to learn about the main features and functions of the product carefully before you use the product. It will be beneficial for you have a better experience with the product. Please note that the pictures in the manual are for reference only. Please refer to the actual product for the specific product. ALLPOWERS reserves the right to modify the contents of this manual without prior notice. Please visit the official website for the latest version of the manual.
- In combination with laws and regulations, the company shall have the final right to interpret the contents of this manual. The company shall not be liable for any losses or accidents of the contents misread. The company shall be liable neither for any losses or accidents caused by the violation of laws and regulations by the information on the products.

2. General Safety Information

- Under unfavorable systems (such only for installation by qualified personnel with appropriate training and experience. Please read the entire manual before attempting any installation or operation, and follow all warnings and cautions indicated in the manual.
- When exposed to direct sunlight, a single module may generate DC voltages exceeding 30V and DC currents exceeding 10A. Please be aware of the risk of electric shock when touching components and the risk of overcurrent when connecting cables.
- Please operate with specialist aids. Otherwise it may give rise to further issues. It is recommended to wear gloves and long sleeves.
- Under normal sunlight conditions, the currents and voltages generated by the photovoltaic panel may be different from the values indicated on the panel. Under standard test conditions (STC), the current and voltage values should be multiplied by 1.25 to determine the maximum current and voltage.
- Do not attempt to disassemble the module, or remove any attached nameplates or labels.
- Do not expose the module to concentrated sunlight (e.g. through a magnifying glass).
- Do not expose the surface of the module to weather (such as rain) or allow it to be submerged in water.
- Do not touch the module surface or frame with wet hands. Do not touch the module without protective equipment unless both the module and the cables have been covered.
- Do not touch the terminals of the module, whether electrical contact is present or not.
- Do not use damaged modules or modules with broken glass. Contact with the module surface will cause electric shock. Damaged modules will cause electric shock if the glass, frame, or backsheet is damaged.
- Do not disconnect any electrical connections unless the system is switched off.
- Do not install the module in the vicinity of flammable gases. Doing so may cause a fire.
- Do not drop tools or objects on the module. Doing so may cause damage or generate sparks.
- Do not stack modules on top of one another.
- Do not touch live terminals. Doing so may result in electric shock or burns.
- When connecting modules in series, ensure that the total voltage will not exceed the maximum system voltage of the other components. When connecting modules in parallel, ensure that the maximum current rating of each string is not exceeded.
- Do not use or install broken modules. Doing so may result in a risk of electric shock, fire, or personal injury.
- Do not disassemble a module or remove any part of it.
- Ground the module frame before operation. Failure to do so may result in electric shock.
- Do not change the wiring of bypass diodes. Doing so will invalidate the warranty.
- Do not touch the module for several minutes after disconnecting it from the system. Doing so may result in burns.
- Do not shade any part of the module from direct sunlight during operation. Doing so will decrease system output and may cause hot spots.
- Do not use mirrors to artificially increase the illumination of the module. Doing so will result in overheating and damage.
- Do not clean the module with chemicals. Doing so may damage the anti-reflective coating, front glass, frame, backsheet, or encapsulant.
- Do not artificially concentrate sunlight on the module.

3. Safety Precautions

- Wear dust shoes on the light-receiving surface of the solar module, the solar module will be damaged. Please do not step on the solar module. Please do not place heavy objects on the solar module to avoid damage to the solar module.
- Please do not place the solar module near a heat source to avoid damage to the solar module.
- Please do not disassemble the solar module without permission to avoid damage to the solar module.
- It is recommended that the photovoltaic panel be installed by a professional technician. Please do not install it yourself to avoid damage to the solar module. It is recommended to wear gloves and long sleeves to prevent scratches during installation.
- Please do not damage the wires and terminals of the solar module to avoid damage to the solar module.
- Please do not damage the junction box of the solar module to avoid damage to the solar module.
- Please do not damage the backsheet and electrical components.
- Please do not damage the glass surface of the solar module. If it is damaged, it is recommended that the photovoltaic panel be replaced to avoid damage to the solar module. Please do not touch the damaged glass surface to avoid electric shock.
- Please do not damage the aluminum alloy frame of the solar module to avoid damage to the solar module.
- Please do not damage the connectors, wiring and terminals applicable to the solar module to avoid damage to the solar module. Please do not connect the solar module to other brands of solar modules to avoid damage to the solar module.
- Please do not damage the bypass diode of the solar module to avoid damage to the solar module.
- Please do not damage the grounding wire of the solar module to avoid damage to the solar module.
- Please do not damage the anti-reflective coating of the solar module to avoid damage to the solar module.
- Please do not damage the anti-corrosion coating of the solar module to avoid damage to the solar module.
- Please do not damage the sealant of the solar module to avoid damage to the solar module.
- Please do not damage the silicone of the solar module to avoid damage to the solar module.
- Please do not damage the adhesive of the solar module to avoid damage to the solar module.
- Please do not damage the packaging of the solar module to avoid damage to the solar module.
- Please do not damage the labels of the solar module to avoid damage to the solar module.
- Please do not damage the instructions of the solar module to avoid damage to the solar module.
- Please do not damage the warranty card of the solar module to avoid damage to the solar module.
- Please do not damage the user manual of the solar module to avoid damage to the solar module.
- Please do not damage the quick start guide of the solar module to avoid damage to the solar module.
- Please do not damage the safety instructions of the solar module to avoid damage to the solar module.
- Please do not damage the warranty terms of the solar module to avoid damage to the solar module.
- Please do not damage the customer service of the solar module to avoid damage to the solar module.
- Please do not damage the after-sales service of the solar module to avoid damage to the solar module.
- Please do not damage the technical support of the solar module to avoid damage to the solar module.
- Please do not damage the online support of the solar module to avoid damage to the solar module.
- Please do not damage the email support of the solar module to avoid damage to the solar module.
- Please do not damage the phone support of the solar module to avoid damage to the solar module.
- Please do not damage the live chat support of the solar module to avoid damage to the solar module.
- Please do not damage the social media support of the solar module to avoid damage to the solar module.
- Please do not damage the forum support of the solar module to avoid damage to the solar module.
- Please do not damage the blog support of the solar module to avoid damage to the solar module.
- Please do not damage the video support of the solar module to avoid damage to the solar module.
- Please do not damage the webinar support of the solar module to avoid damage to the solar module.
- Please do not damage the training support of the solar module to avoid damage to the solar module.
- Please do not damage the certification support of the solar module to avoid damage to the solar module.
- Please do not damage the warranty support of the solar module to avoid damage to the solar module.
- Please do not damage the repair support of the solar module to avoid damage to the solar module.
- Please do not damage the replacement support of the solar module to avoid damage to the solar module.
- Please do not damage the return support of the solar module to avoid damage to the solar module.
- Please do not damage the refund support of the solar module to avoid damage to the solar module.
- Please do not damage the exchange support of the solar module to avoid damage to the solar module.
- Please do not damage the trade-in support of the solar module to avoid damage to the solar module.
- Please do not damage the recycling support of the solar module to avoid damage to the solar module.
- Please do not damage the disposal support of the solar module to avoid damage to the solar module.
- Please do not damage the environmental support of the solar module to avoid damage to the solar module.
- Please do not damage the sustainability support of the solar module to avoid damage to the solar module.
- Please do not damage the energy support of the solar module to avoid damage to the solar module.
- Please do not damage the power support of the solar module to avoid damage to the solar module.
- Please do not damage the electricity support of the solar module to avoid damage to the solar module.
- Please do not damage the voltage support of the solar module to avoid damage to the solar module.
- Please do not damage the current support of the solar module to avoid damage to the solar module.
- Please do not damage the resistance support of the solar module to avoid damage to the solar module.
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- Please do not damage the wavelength support of the solar module to avoid damage to the solar module.
- Please do not damage the spectrum support of the solar module to avoid damage to the solar module.
- Please do not damage the light support of the solar module to avoid damage to the solar module.
- Please do not damage the sun support of the solar module to avoid damage to the solar module.
- Please do not damage the earth support of the solar module to avoid damage to the solar module.
- Please do not damage the moon support of the solar module to avoid damage to the solar module.
- Please do not damage the star support of the solar module to avoid damage to the solar module.
- Please do not damage the galaxy support of the solar module to avoid damage to the solar module.
- Please do not damage the universe support of the solar module to avoid damage to the solar module.
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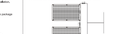
- Please do not damage the time support of the solar module to avoid damage to the solar module.

4. Installation Procedures and Precautions

4.1 Unpacking and Precautions

Carefully unpack the solar panel and keep all attachments on the package are delivered. The contents are listed as follows:



1* Solar Panel 8* Wraps 1* User Manual

4.2 Preinstallation Requirements

Ensure that installer complies with ground system technical requirements and that the installation site is suitable for the solar module. Ensure that the solar module can be connected in series to inverter voltage or in parallel to inverter current. Ensure that the solar module is not shaded by trees, buildings, etc. Ensure that the solar module is not shaded by the shadow of the solar module. Ensure that the solar module is not shaded by the shadow of the solar module. Ensure that the solar module is not shaded by the shadow of the solar module