

PV12W Waterproof Solar Panel with brackets



PRODUCT DESCRIPTION

Measuring weather and other data for outdoor application scenarios often requires sensors and data loggers in places far from any power grid. To supply power to remote sensor infrastructure, a sensor system can generate its own power. In most cases, the cheapest and most convenient method is solar panels combined with a battery. When the sun is bright enough solar panels provide enough electricity to power the sensor system and charge the battery for the night or during times when the sunlight is not sufficient.

The 12W Solar Panel can be used as a convenient, cheap, and clean solution for supplying power of your applications such as environmental monitoring in agriculture, forestry, garden, or a security camera in your home or garden, etc.

FEATURES

- Mono Cel Solar Cells
- Working temperate from -20°C to 70°C
- Peak Power: 12W
- Durable: suitable for long-term outdoor applications
- Robustness: the sturdy frame protects the solar panel from deformation
- Easy installation: comes with a bracket
- Waterproof aviation connector save your time to deploy and can be directly connected to data logger

APPLICATION

- Environmental Monitoring
- Agriculture
- Research
- Meteorological Monitoring
- Smart Home/ Garden/ Security Camera
- Other applications that need 12W power supply

SPECIFICATIONS

PRODUCT MODEL

Model	PV12W
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GENERAL PARAMETER SOLAR PANEL PARAMETERS

Module type	Monocrystalline silicon
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Peak power	12Wp
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Open circuit voltage	14V
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Short circuit current	1A
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Package size	350mm*250mm*25mm
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Package weight	~1.1kg
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GENERAL PARAMETER PHOTOVOLTAIC MODULES

Solar cell type	Monocrystalline silicon
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Peak power	12 Wp
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Open circuit voltage(Voc)	14V
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Short circuit current (Isc)	1A
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Working voltage (Vmppt)	12V
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Working current (Imppt)	1A
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maximum voltage the system	1000 Vdc
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Module size	350*250*25 mm
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Peak power temperature coefficient	-0.45%/°C
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Open circuit voltage temperature coefficient	-0.35%/°C
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**GENERAL PARAMETER
PHOTOVOLTAIC MODULES**

Short-circuit current temperature coefficient	+0.05%/°C
Operating temperature range	-20~70°C
Maximum wind/snow load	2400/5400 Pa