

SP95 monocrystalline photovoltaic module

Made with Sun Power high efficiency back-contact solar cells

SP-95 watt monocrystalline module has multiple advantages. These solar modules are made with Sun Power back-contact monocrystalline solar cells which are aesthetically pleasing in appearance. The cells have a unique structure, different from conventional cells, they yield average conversion efficiencies up to 21%.

PVCOOL uses the highest quality materials in the manufacture of our solar modules, has excellent quality control and has qualified our factory to ISO 9001 standards for manufacturing.

Features

- Photovoltaic modules made with unique back contact cells.
- Cells with high conversion efficiency up to 21%
- Due to higher efficiency the modules are smaller in size than modules made with conventional cells..
- Black modules are available on special request..
- Modules are made with high quality materials which qualifies the high reliability of the module.
- Designed to charge 12 to 48 volt batteries for off grid remote power systems.
- Manufactured in ISO9001 certified factory.

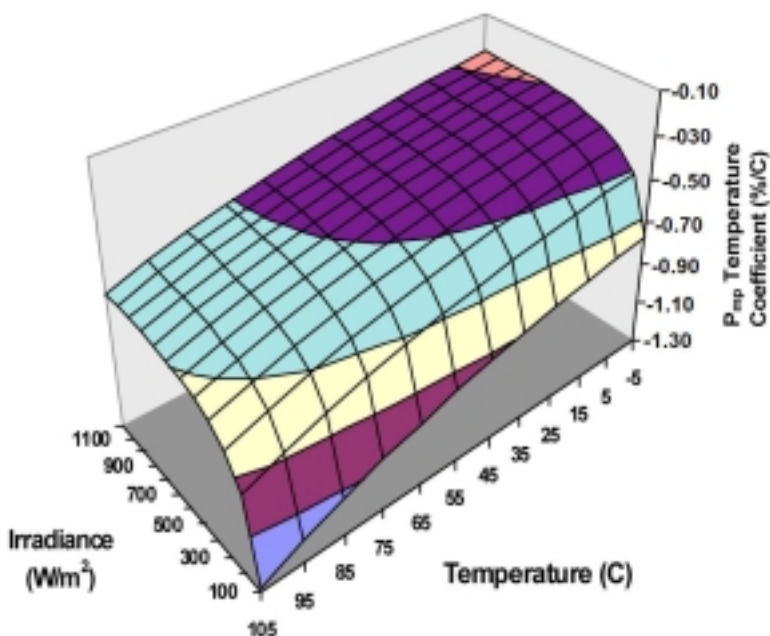


Fig1. Maximum power temperature coefficient for SP module as a function of irradiance and temperature

Limited Warranty

10 years limited power warranty of 90% of the minimum specified power rating.

Applications

- Telecommunication
- Desalination systems
- Water pumping for various agriculture and
- Electricity for remote villages aquaculture applications
- Security cameras
- Cathodic protection
- Remote sensors
- Lighting systems for emergency use and railroad
- Telemetry equipment

95 Watt Monocrystalline Photovoltaic Module

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Electrical Characteristics

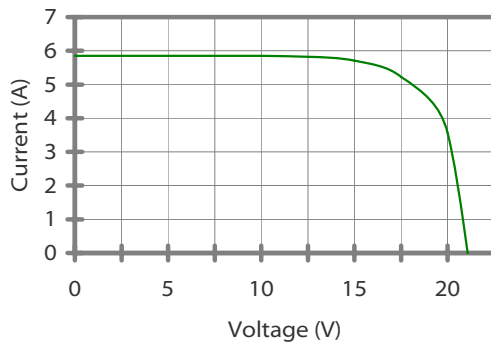
Model Number: SP95-W

Max Power	Pmax	95W
Max Power Voltage	Vmp	17.6V
Max Power Current	Imp	5.4A
Open Circuit Voltage	Voc	21.5V
Short Circuit Current	Isc	5.66A
Maximum System Voltage		70V
Series Fuse Rating		9A
Temperature Co-efficients		
	Power	-0.38%/°C
	Voltage	-60.8mV/°C
	Current	2.3mA/°C
Cell Efficiency		20.90%
Number of Cells in Series		32
Number of Strings in Parallel		1
Max Power Tolerance		+/-5%

Mechanical Characteristics

Weight	7.4kg
Dimension	1037 x 527
Thickness, including junction box	54mm
Frame	>10µm clear anodized

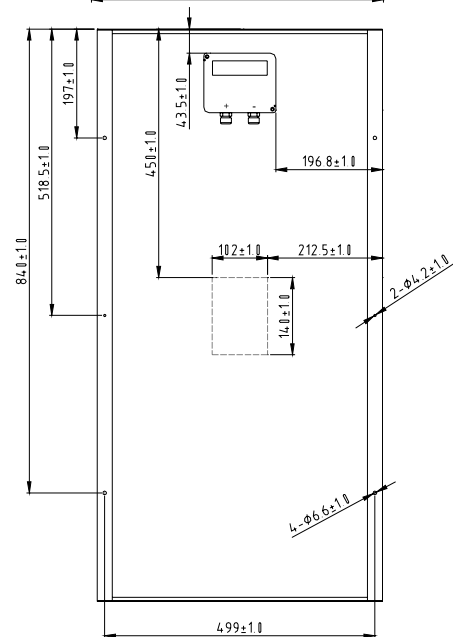
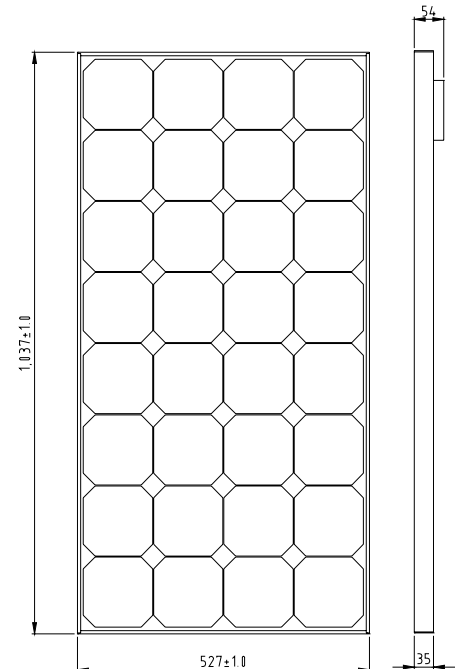
IV Curve



Note: All electrical parameters are rated at standard test conditions (irradiance of 1000W/m², AM 1.5G, cell temperature 77°F/25°C)

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Dimensions



Unit: mm