

30 Watt Monocrystalline Photovoltaic Module

Made with high efficiency back-contact solar cells

Copia Solar's 30 watt monocrystalline module has multiple advantages. These solar modules are made with back-contact monocrystalline solar cells which are aesthetically pleasing in appearance. The cells have a unique structure, different from conventional cells, they yield an average conversion efficiency up to 21.2%.

Copia Solar uses the highest quality materials in the manufacturing of our solar modules, and also maintains excellent quality control levels at our ISO 9001 qualified factory.



Features

- Photovoltaic modules made with unique back-contact cells.
- Cells with high conversion efficiency up to 21.2%.
- Due to higher efficiency the modules are smaller in size than modules made with conventional cells.
- White modules are available on special request.
- Copia Solar 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.

Limited Warranty

10 years limited power warranty of 90% of the minimum specified power rating, please refer to warranty details issued by Copia Solar/Manufacturer.

Applications

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

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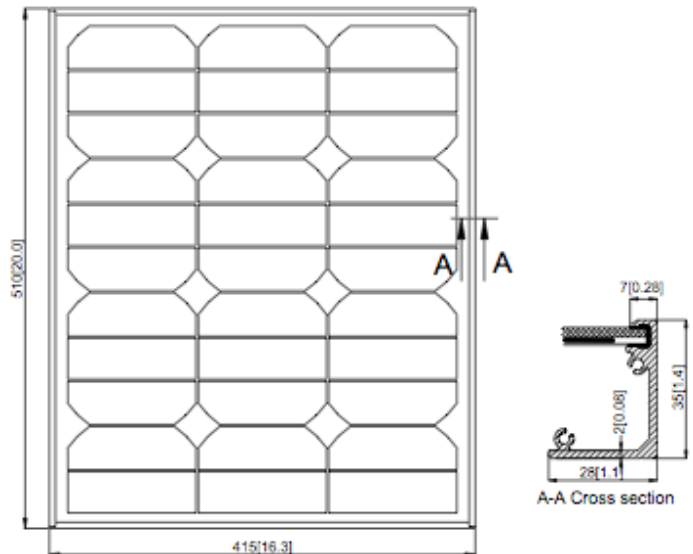
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Electrical Characteristics

Model Number: COS-30-11

Max Power	P _{max}	30W
Max Power Voltage	V _{mp}	17.5V
Max Power Current	I _{mp}	1.68A
Open Circuit Voltage	V _{oc}	21.0V
Short Circuit Current	I _{sc}	1.88A
Maximum System Voltage		70V
Series Fuse Rating		5A
Temperature Co-efficients		
	Power	-0.38%/°C
	Voltage	-60.5mV/°C
	Current	1.77mA/°C
Cell Efficiency		19.70%
Number of Cells in Series		33
Number of Strings in Parallel		1
Max Power Tolerance		+/-10%

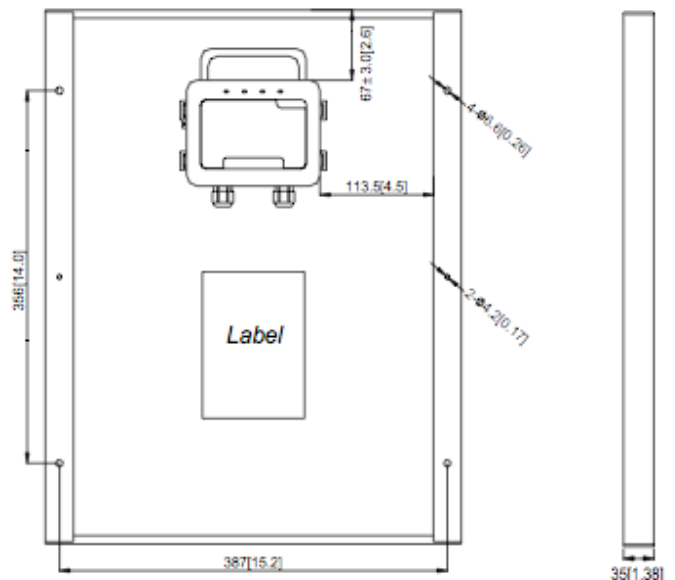
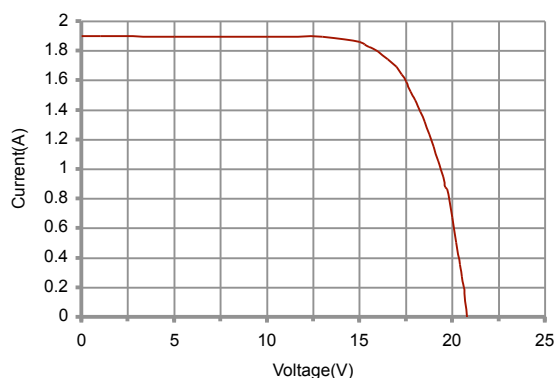
Dimensions Unit: mm [in]



Mechanical Characteristics

Weight	3.9kg, 8.6lbs
Dimension	510x415mm [20.0x16.3in]
Thickness, including junction box	35mm [1.38in]
Frame	>15μm 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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