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**Solar Panel Guide**

**Specification Data Sheet**

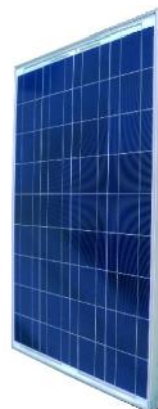
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## 140W Photovoltaic Solar Module

EC Series

- ☺ Sunny Apex's EC series solar modules ranged from 10Watt to 200Watt
- Using high quality multi-crystalline cells and encapsulation materials
- ☺ Anodized aluminum improving corrosion resistance
- Excellent low light behaviour for improved energy yield

*✳ Your best choice for off-grid solar application ! ✳*



### Electrical Specifications

Model Type	SA-EC140	SA-EC135	SA-EC130
Peak Power (Pmax)	140W	135	130
Module Efficiency	14.40%	13.90%	13.40%
Maximum Power Voltage (Vmp)	17.5V	17.5V	17.5V
Maximum Power Current (Imp)	8.00A	7.71A	7.43A
Open Circuit Voltage (Voc)	21.8V	21.8V	21.8V
Short Circuit Current (Isc)	8.80A	8.64A	8.32A
Power Tolerance	-5% / + 10%		
Maximum System Voltage	600V		
Normal Operating Cell Temp.	46 °C (+/-2)		

### Mechanical Specifications

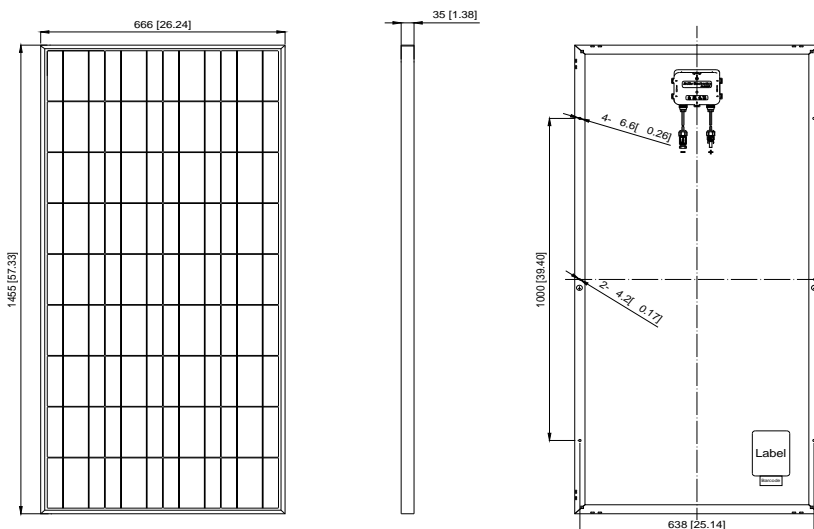
Cell type	Poly-crystalline
Number of cells	36 cells in series
Weight	11.98kg [26.41lbs]
Dimensions	1455 x 666 x 35mm [57.33 x 26.24 x 1.38in]
Frame	> 15 $\mu$ m clear anodized aluminum
Junction Box	JX-18003F (IP67 waterproof)
Cables	4.00mm <sup>2</sup> , 500mm
Connectors	LJQ-1 (MC4 compatible)

### Temperature Coefficients

Power	-0.43 %/K
Current	+0.06 %/K
Voltage	-0.36 %/K

### Warranties & Certifications

Warranties	2 years product warranty, 20 years limited power warranty of 80% of the minimum specified power rating
Caution: Read Safety and Installation Instruction before using this product	



Unit: mm [inch]

Note: All electrical parameters are rated at standard test conditions (irradiance of 1000W/m<sup>2</sup>, AM 1.5G, cell temperature 77°F/25°C)

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