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Solar Panel Guide

Specification Data Sheet

Learn more at energypal.com/best-solar-panels-for-homes

Sunny Apex

45W 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-EC45	SA-EC40
Peak Power (Pmax)	45	40
Module Efficiency	12.60%	11.30%
Maximum Power Voltage (Vmp)	17.4V	17.4V
Maximum Power Current (Imp)	2.59A	2.3A
Open Circuit Voltage (Voc)	21.9V	21.9V
Short Circuit Current (Isc)	2.9A	2.58A
Power Tolerance	-5% / + 10%	
Maximum System Voltage	600V	
Nominal Operating Cell Temp.	46 °C (+/-2)	

Mechanical Specifications

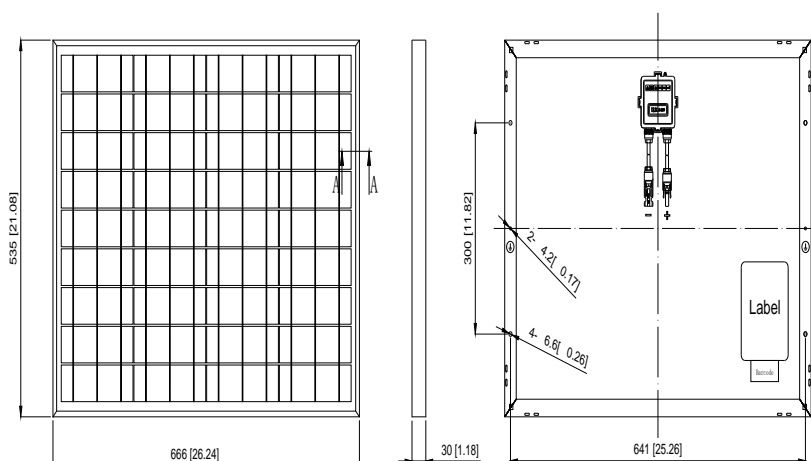
Cell type	Poly-crystalline
Number of cells	36 cells in series
Weight	4.53kg [9.97lbs]
Dimensions	535 x 666 x 30mm [21.08 x 26.24 x 1.18in]
Frame	> 15 μ m clear anodized aluminum
Junction Box	JX80B (IP65 waterproof)
Cables	4.00mm ² , 500mm
Connectors	LJQ-1 (MC4 compatible)

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/m², AM 1.5G, cell temperature 77°F/25°C)

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