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Solar Panel Guide

Specification Data Sheet

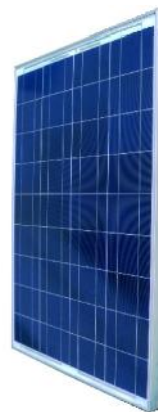
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90W Photovoltaic Solar Module

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-EC90 | SA-EC85 | SA-EC80 |
|-----------------------------|--------------|---------|---------|
| Peak Power (Pmax) | 90W | 85W | 80W |
| Module Efficiency | 13.70% | 12.80% | 12.10% |
| Maximum Power Voltage (Vmp) | 17.4V | 17.4V | 17.4V |
| Maximum Power Current (Imp) | 5.17A | 4.89A | 4.60A |
| Open Circuit Voltage (Voc) | 21.9V | 21.9V | 21.9V |
| Short Circuit Current (Isc) | 5.68A | 5.37A | 5.05A |
| Power Tolerance | -5% / + 10% | | |
| Maximum System Voltage | 600V | | |
| Normal Operating Cell Temp. | 46 °C (+/-2) | | |

Mechanical Specifications

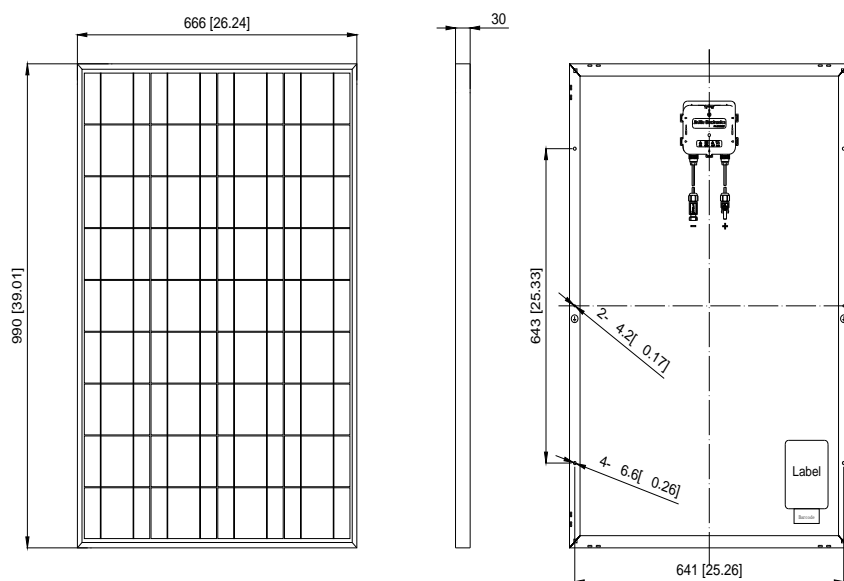
| | |
|-----------------|--|
| Cell type | Poly-crystalline |
| Number of cells | 36 cells in series |
| Weight | 8.09kg [17.84lbs] |
| Dimensions | 990 x 666 x 30mm [39.01 x 26.24 x 1.18in] |
| Frame | > 15 μ m clear anodized aluminum |
| Junction Box | JB-18003F (IP 67 waterproof) |
| Cables | 4.00mm 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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