

156 Series Polycrystalline Solar Module

300W, 305W



High Module Conversion Efficiencies



Easy Installation and Handling



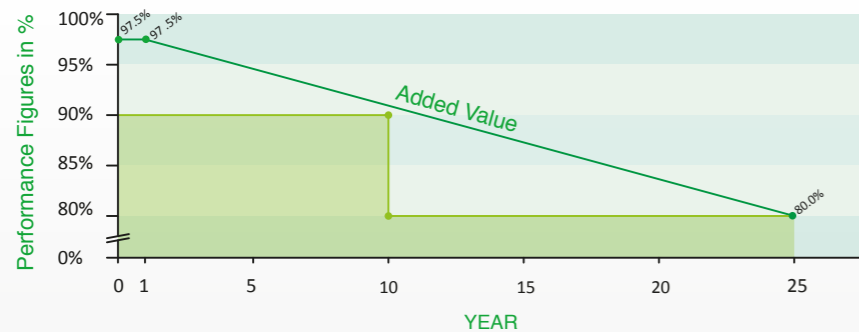
Mechanical Load Capability of up to 5400 Pa



Conforms with IEC 61215:2005, IEC 61730: 2004, UL 1703 PV Standards



ISO9001, OHSAS18001, ISO14001 Certified



10-year
material & workmanship

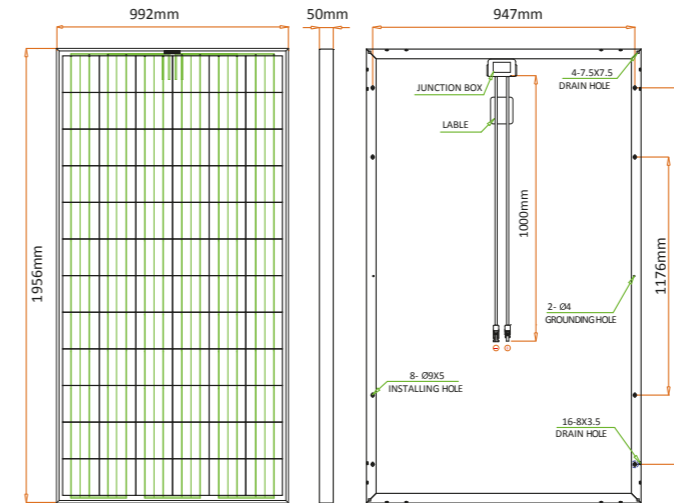
25-year
linear power output



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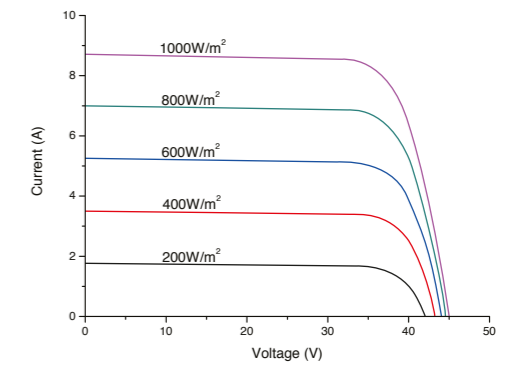
300W, 305W

Dimensions



Drawing Only for Reference

I-V Curves



Varied Irradiation Efficiencies

| Irradiance | 200W/m ² | 400W/m ² | 600W/m ² | 800W/m ² | 1000W/m ² |
|------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| Efficiency | 15.5% | 15.9% | 15.9% | 15.9% | 15.7% |

Electrical Characteristics STC

| | JC300M-24/Ab | JC305M-24/Ab |
|-----------------------------|--------------|--------------|
| Maximum Power (Pmax) | 300 W | 305 W |
| Power Tolerance | 0 ~ +5W | 0 ~ +5W |
| Module Efficiency | 15.5% | 15.7% |
| Maximum Power Current (Imp) | 8.20 A | 8.33 A |
| Maximum Power Voltage (Vmp) | 36.6 V | 36.6 V |
| Short Circuit Current (Isc) | 8.69 A | 8.73 A |
| Open Circuit Voltage (Voc) | 44.8 V | 44.9 V |

Values at Standard Test Conditions STC (Air Mass AM1.5, Irradiance 1000W/m², Cell Temperature 25°C)

Electrical Characteristics NOCT

| | JC300M-24/Ab | JC305M-24/Ab |
|-----------------------------|--------------|--------------|
| Maximum Power (Pmax) | 222 W | 226 W |
| Maximum Power Current (Imp) | 6.67 A | 6.72 A |
| Maximum Power Voltage (Vmp) | 33.4 V | 33.6 V |
| Short Circuit Current (Isc) | 7.02 A | 7.04 A |
| Open Circuit Voltage (Voc) | 41.9 V | 42.0 V |

Values at Normal Operating Cell Temperature, Irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s

Mechanical Characteristics

| | |
|----------------------------|--|
| Cell Type | 156 x156 mm Polycrystalline, 72 (6x12) pcs in series |
| Glass | High Transmission, Low Iron, Tempered Glass |
| Frame | Anodized Aluminum Alloy |
| Junction Box | IP65/IP67 rated, with bypass diodes |
| Dimension | *1956 x 992 x 50 mm |
| Output Cable | 4 mm ² (EU)/12 AWG (US), 1000 mm |
| Weight | 29 Kg |
| Installation Hole Location | See Drawing Above |

Characteristics

| | |
|---|-----------|
| Temperature Coefficient of Voc | -0.30%/°C |
| Temperature Coefficient of Isc | 0.04%/°C |
| Temperature Coefficient of Pmax | -0.40%/°C |
| Nominal Operating Cell Temperature (NOCT) | 45°C±2°C |

Packing Information

| | 20' GP | 40' GP | 40' HQ |
|-----------------------|--------|--------|--------|
| Container | | | |
| Pallets per Container | 10 | 24 | 24 |
| Pieces per Container | 200 | 480 | 528 |

Maximum Ratings

| | |
|----------------------------|----------------------------|
| Operating Temperature | -40°C ~ +85°C |
| Maximum System Voltage | 1000VDC (EU) / 600VDC (US) |
| Maximum Series Fuse Rating | 20A (EU) / 15A (US) |

Rev No: JC/TDS/2012.07 *Contact ReneSola for tolerance specification
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