

156 Series Polycrystalline Solar Module

300W, 305W



High Module Conversion Efficiencies



Easy Installation and Handling



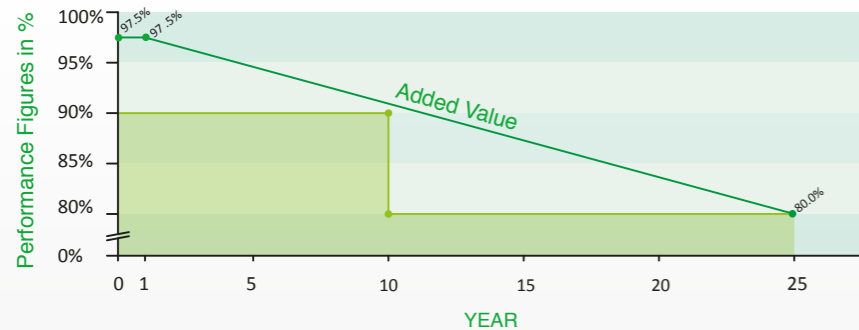
Mechanical Load Capability of up to 5400 Pa



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



ISO9001, OHSAS18001, ISO14001 Certified



10-year
material & workmanship

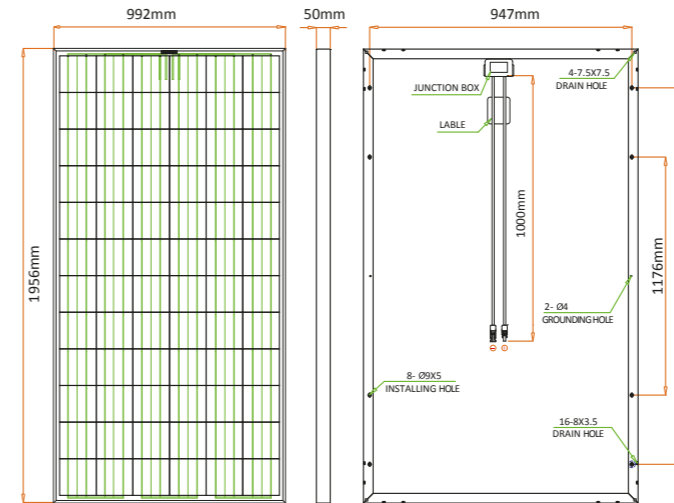
25-year
linear power output



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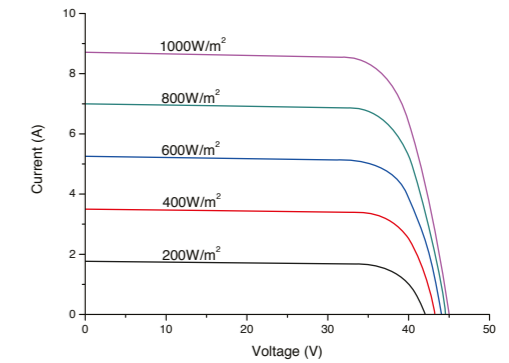
300W, 305W

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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