

# 156 Series Polycrystalline Solar Module

285W,290W,295W,300W



High Module Conversion Efficiency



Easy Installation and Handling for Various Applications



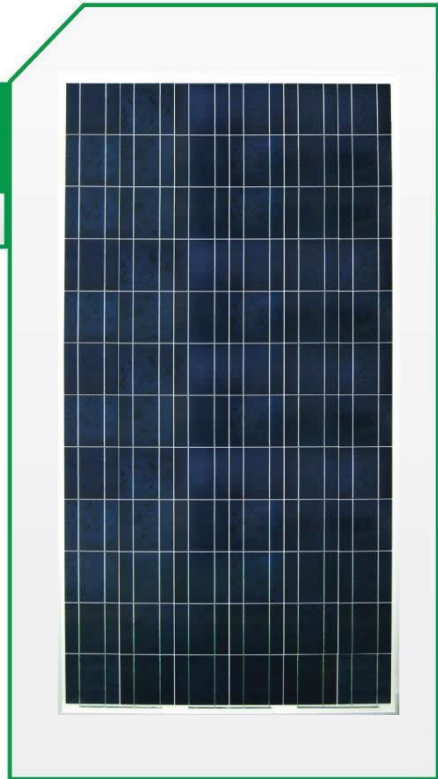
Withstanding Mechanical Load up to 5400 Pa



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



ISO9001, OHSAS18001, ISO14001



We provide a 10 years material and workmanship guarantee for our modules. In addition, a 90%-power-output guarantee for 10 years and a 80%-power-output guarantee for 25 years of the modules life are provided .

**10-year**

material & workmanship

**10-year**

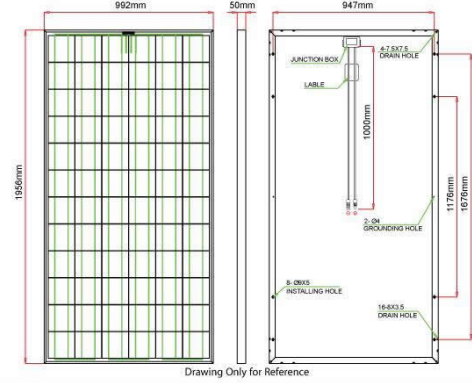
90% power output

**25-year**

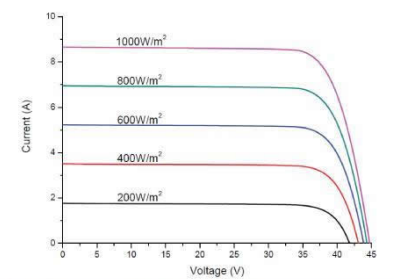
80% power output



### Dimension



### I-V Curves



### Efficiency at Varied Irradiation

Irradiance	200W/m <sup>2</sup>	400W/m <sup>2</sup>	600W/m <sup>2</sup>	800W/m <sup>2</sup>	1000W/m <sup>2</sup>
Efficiency	15.1%	15.5%	15.6%	15.6%	15.5%

### Electrical Characteristics STC

	JC285M-24/Ab	JC290M-24/Ab	JC295M-24/Ab	JC300M-24/Ab
Maximum Power ( Pmax )	285 W	290 W	295 W	300 W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W
Module Efficiency	14.7%	14.9%	15.2%	15.5%
Maximum Power Current ( Imp )	8.00 A	8.08 A	8.13 A	8.20 A
Maximum Power Voltage ( Vmp )	35.7 V	35.9 V	36.3 V	36.6 V
Short Circuit Current ( Isc )	8.48 A	8.56 A	8.62 A	8.69 A
Open Circuit Voltage ( Voc )	44.5 V	44.6 V	44.7 V	44.8 V

Values at Standard Test Conditions STC ( Air Mass AM1.5, Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C )

### Electrical Characteristics NOCT

	JC285M-24/Ab	JC290M-24/Ab	JC295M-24/Ab	JC300M-24/Ab
Maximum Power ( Pmax )	211 W	215 W	219 W	222 W
Maximum Power Current ( Imp )	6.46 A	6.52 A	6.57 A	6.67 A
Maximum Power Voltage ( Vmp )	32.7 V	33.0 V	33.3 V	33.4 V
Short Circuit Current ( Isc )	6.84 A	6.91 A	6.96 A	7.02 A
Open Circuit Voltage ( Voc )	41.6 V	41.7 V	41.8 V	41.9 V

Values at Normal Operating Cell Temperature, Irradiance of 800 W/m<sup>2</sup>, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s

### Mechanical Characteristics

Cell Type	156 x 156 mm Polycrystalline, 72 ( 6 x 12 ) pcs in series
Glass	High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP65 rated, with bypass diodes
Dimension	*1956 x 992 x 50 mm
Cable Length	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

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

### Maximum Ratings

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