

156 Series Polycrystalline Solar Module

220W, 225W, 230W, 235W, 240W



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

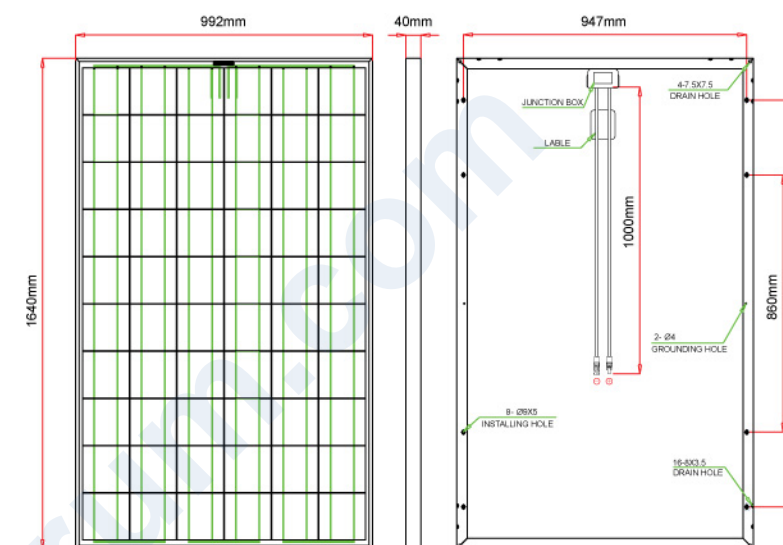
25-year

80% power output



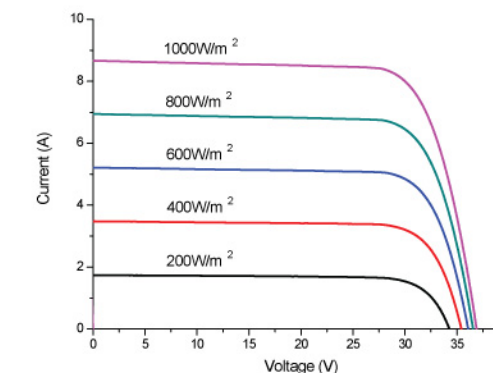
220W, 225W, 230W, 235W, 240W

Dimension



Drawing Only for Reference

I-V Curves



Efficiency at Varied Irradiation

Irradiance	200W/m ²	400W/m ²	600W/m ²	800W/m ²	1000W/m ²
Efficiency	14.4%	14.8%	14.9%	14.9%	14.8%

Electrical Characteristics

	JC220M-24/Bb	JC225M-24/Bb	JC230M-24/Bb	JC235M-24/Bb	JC240M-24/Bb
Maximum Power (Pmax)	220 W	225 W	230 W	235 W	240 W
Power Tolerance	±3%	±3%	±3%	±3%	±3%
Module Efficiency	13.53%	13.85%	14.17%	14.46%	14.77%
Maximum Power Current (Imp)	7.69 A	7.83 A	7.88 A	7.95 A	8.09 A
Maximum Power Voltage (Vmp)	28.6 V	28.8 V	29.2 V	29.6 V	29.7 V
Short Circuit Current (Isc)	8.17 A	8.34 A	8.42 A	8.43 A	8.67 A
Open Circuit Voltage (Voc)	36.4 V	36.6 V	36.7 V	36.7 V	36.9 V

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

Temperature Coefficient

Temperature Coefficient of Voc	-0.3002%/°C
Temperature Coefficient of Isc	0.0414%/°C
Temperature Coefficient of Pmax	-0.4002%/°C
Nominal Operating Cell Temperature (NOCT)	45°C±2°C

Maximum Ratings

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

Mechanical Characteristics

Cell Type	156 x 156 mm Polycrystalline, 60 (6 x 10) pcs in series
Glass	High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP65 rated, with bypass diodes
Dimension	*1640 x 992 x 40 mm
Cable Length	1000 mm
Weight	20 Kg
Installation Hole Location	See Drawing Above

Packing Information

Container	20'GP	40'GP	40'HQ
Pallets per Container	12	28	28
Pieces per Container	300	700	770