

156 Series Monocrystalline Solar Module

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

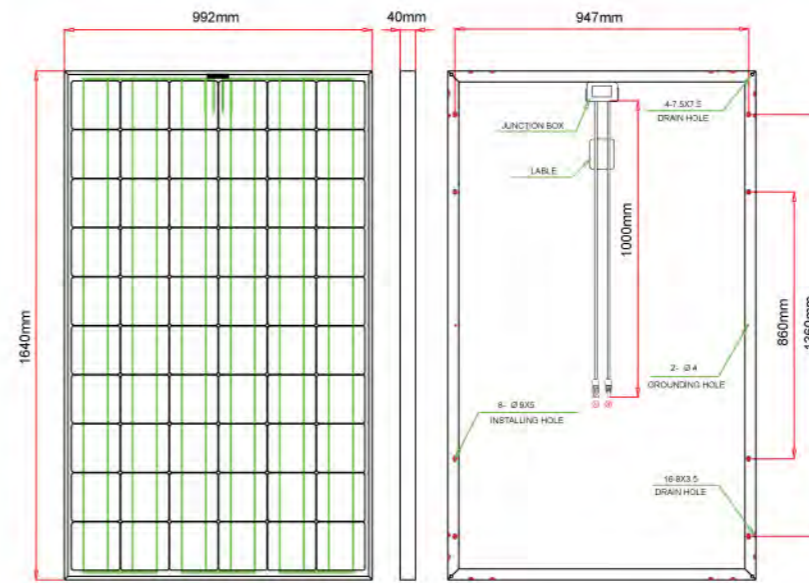
25-year
80% power output



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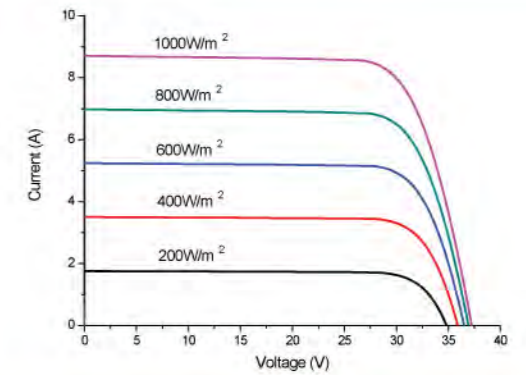
230W, 235W, 240W

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	15.07%	15.23%	15.16%	15.00%	14.78%

Electrical Characteristics

	JC230S-24/Bb	JC235S-24/Bb	JC240S-24/Bb
Maximum Power (Pmax)	230 W	235 W	240 W
Power Tolerance	±3%	±3%	±3%
Module Efficiency	14.31%	14.46%	14.78%
Maximum Power Current (Imp)	7.92 A	7.98 A	8.16 A
Maximum Power Voltage (Vmp)	29.4 V	29.5 V	29.5 V
Short Circuit Current (Isc)	8.49 A	8.56 A	8.71 A
Open Circuit Voltage (Voc)	37.0 V	37.2 V	37.2 V

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

Temperature Coefficient

Temperature Coefficient of Voc	-0.3109%/°C
Temperature Coefficient of Isc	0.0348%/°C
Temperature Coefficient of Pmax	-0.4310%/°C
Nominal Operating Cell Temperature (NOCT)	45°C±2°C

Mechanical Characteristics

Cell Type	156 x 156 mm Monocrystalline, 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

Maximum Ratings

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

Packing Information

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