

Virtus[®] II Module

230W, 235W, 240W, 245W



High Module Conversion Efficiencies



Easy Installation and Handling for Various Applications



Mechanical Load Capability of up to 5400 Pa



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



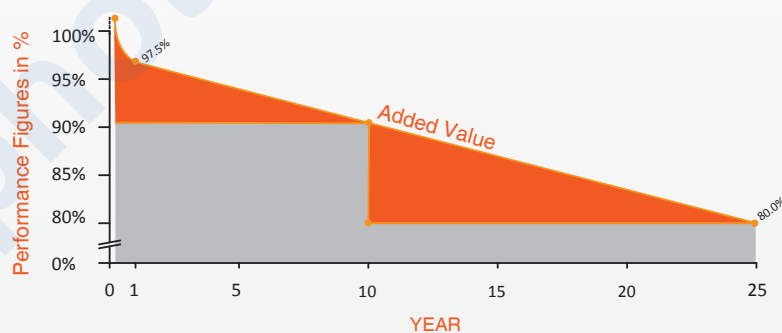
ISO9001, OHSAS18001, ISO14001 Certified



Application Class A, Safety Class II, Fire Rating C



Also Available for Black Frame



10-year
material & workmanship

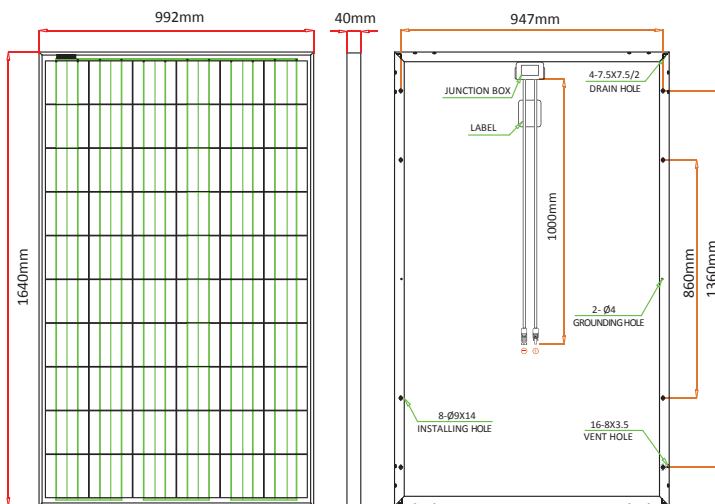
25-year
linear power output



APPROVED PRODUCT

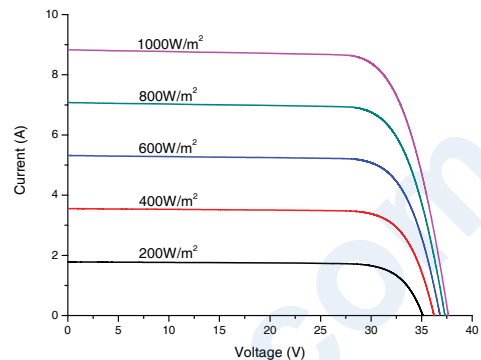


Dimensions



Drawing Only for Reference

I-V Curves



Efficiency at Varied Irradiation

Irradiance	200W/m²	400W/m²	600W/m²	800W/m²	1000W/m²
Efficiency	14.9%	15.2%	15.3%	15.2%	15.1%

Electrical Characteristics STC

	JC230M-24/Bb	JC235M-24/Bb	JC240M-24/Bb	JC245M-24/Bb
Maximum Power (Pmax)	230 W	235 W	240 W	245 W
Power Tolerance	0 ~ +5W	0 ~ +5W	0 ~ +5W	0 ~ +5W
Module Efficiency	14.1%	14.4%	14.8%	15.1%
Maximum Power Current (Imp)	7.88 A	8.03 A	8.08 A	8.19 A
Maximum Power Voltage (Vmp)	29.2 V	29.3 V	29.7 V	29.9 V
Short Circuit Current (Isc)	8.47 A	8.58 A	8.64 A	8.73 A
Open Circuit Voltage (Voc)	36.7 V	37.0 V	37.2 V	37.3 V

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

Electrical Characteristics NOCT

	JC230M-24/Bb	JC235M-24/Bb	JC240M-24/Bb	JC245M-24/Bb
Maximum Power (Pmax)	171 W	174W	178 W	182 W
Maximum Power Current (Imp)	6.34 A	6.42 A	6.51 A	6.53 A
Maximum Power Voltage (Vmp)	26.9 V	27.1 V	27.4 V	27.9 V
Short Circuit Current (Isc)	6.83 A	6.92 A	6.97 A	7.04 A
Open Circuit Voltage (Voc)	34.2 V	34.4 V	34.7 V	35.0 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	Virtus® II (Polycrystalline), 60 (6x10) pcs in series
Glass	High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP65/IP67 rated, with bypass diodes
Dimension	*1640 x 992 x 40 mm
Output Cable	4 mm² (EU)/12 AWG (US), 1000 mm
Weight	19 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	12	28	28
Pieces per Container	300	700	770

Maximum Ratings

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

Rev No: JC/TDS/2013.11.27 *Contact ReneSola for tolerance specification.
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