

## Virtus<sup>®</sup> II Module

300W, 305W, 310W



**High Module Conversion Efficiencies**



**Easy Installation and Handling for Various Applications**



**Mechanical Load Capability of up to 5400 Pa**



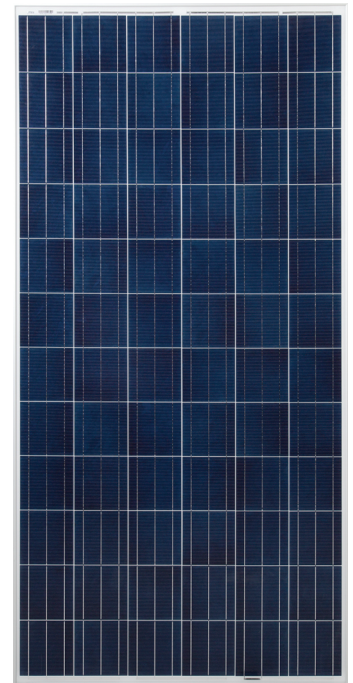
**Conforms with IEC 61215:2005,  
IEC 61730:2004, UL 1703 PV Standards**



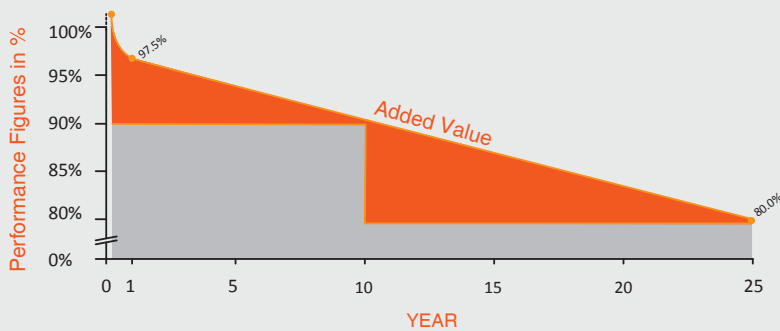
**ISO9001, OHSAS18001, ISO14001 Certified**



**Application Class A, Safety Class II, Fire Rating C**



Also Applicable for Module with Black Frame

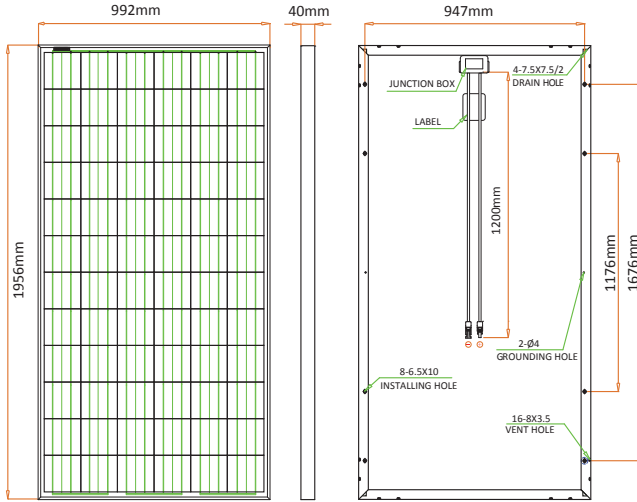


**10-year**  
material & workmanship

**25-year**  
linear power output

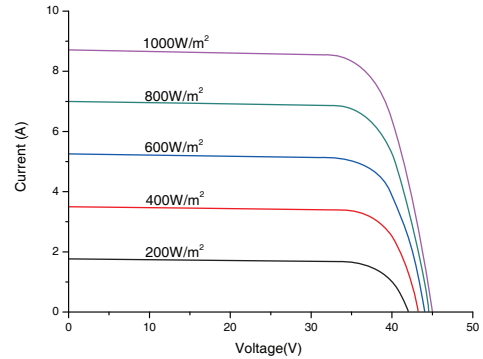


#### Dimensions



Drawing Only for Reference

#### I-V Curves



#### Varied Irradiation Efficiencies

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	15.8%	16.2%	16.2%	16.1%	16.0%

#### Electrical Characteristics STC

	JC300M-24/Ab	JC305M-24/Ab	JC310M-24/Ab
Maximum Power (Pmax)	300 W	305 W	310 W
Power Tolerance	0 ~ +5W	0 ~ +5W	0 ~ +5W
Module Efficiency	15.5%	15.7%	16.0%
Maximum Power Current (Imp)	8.20 A	8.33 A	8.38 A
Maximum Power Voltage (Vmp)	36.6 V	36.6 V	37.0 V
Short Circuit Current (Isc)	8.69 A	8.73 A	8.80 A
Open Circuit Voltage (Voc)	44.8 V	44.9 V	45.0 V

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

#### Electrical Characteristics NOCT

	JC300M-24/Ab	JC305M-24/Ab	JC310M-24/Ab
Maximum Power (Pmax)	222 W	226 W	230 W
Maximum Power Current (Imp)	6.67 A	6.72 A	6.80 A
Maximum Power Voltage (Vmp)	33.4 V	33.6 V	33.8 V
Short Circuit Current (Isc)	7.02 A	7.04 A	7.10 A
Open Circuit Voltage (Voc)	41.9 V	42.0 V	42.1 V

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

#### Mechanical Characteristics

Cell Type	Virtus II (Polycrystalline) 156 x156 mm, 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 40 mm
Output Cable	4 mm <sup>2</sup> (EU)/12 AWG (US), 1200 mm
Weight	27 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	250	600	660

#### 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/2014.05.09 \*Contact ReneSola for tolerance specification  
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