

## Virtus<sup>®</sup> II Module

275W/280W/285W/290W/295W



High Module Conversion Efficiencies



Easy Installation and Handling for Various Applications



Mechanical Load Capability up to 5400 Pa



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



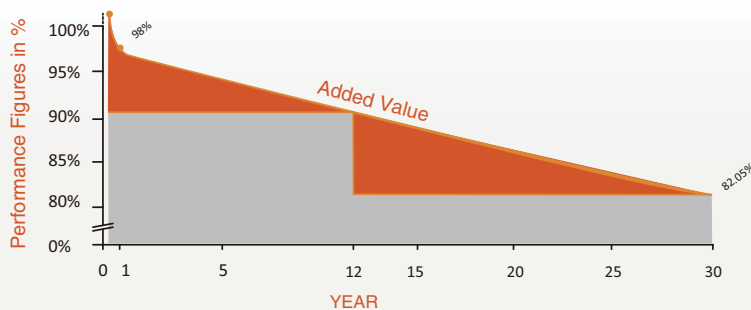
ISO9001, ISO14001, OHSAS18001 Certified



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



Also Applicable For Modules With Black Frame  
and Diamond Wire Slicing Wafer

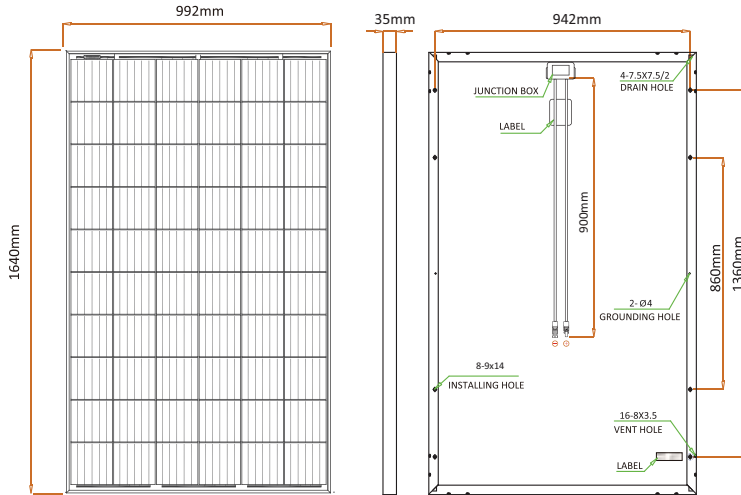


**12-year**  
Material & Workmanship

**30-year**  
Linear Power Output

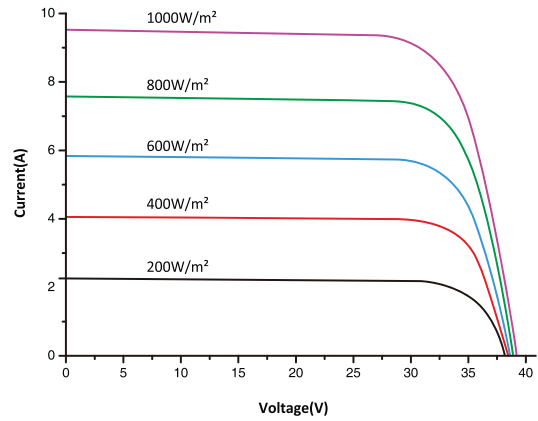


#### Mounting Drawings



Drawing Only For Reference

#### I-V Curves



#### Electrical Characteristics STC

	JC275M-24/Bbpw	JC280M-24/Bbpw	JC285M-24/Bbpw	JC290M-24/Bbpw	JC295M-24/Bbpw
Maximum Power(Pmax)	275W	280W	285W	290W	295W
Power Tolerance	0 ~+5W	0 ~+5W	0 ~+5W	0 ~+5W	0 ~+5W
Module Efficiency	16.90%	17.21%	17.52%	17.83%	18.13%
Maximum Power Current(Imp)	8.80A	8.89A	8.97A	9.08A	9.13A
Maximum Power Voltage(Vmp)	31.3V	31.5V	31.8V	32.0V	32.4V
Short Circuit Current(Isc)	9.21A	9.26A	9.31A	9.42A	9.44A
Open Circuit Voltage(Voc)	38.5V	38.8V	39.1V	39.3V	39.9V

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

#### Electrical Characteristics NOCT

	JC275M-24/Bbpw	JC280M-24/Bbpw	JC285M-24/Bbpw	JC290M-24/Bbpw	JC295M-24/Bbpw
Maximum Power (Pmax)	204W	207W	211W	218W	221W
Maximum Power Current (Imp)	7.09A	7.15A	7.23A	7.39A	7.40A
Maximum Power Voltage (Vmp)	28.8V	29.0V	29.2V	29.5V	29.9V
Short Circuit Current (Isc)	7.55A	7.62A	7.67A	7.76A	7.79A
Open Circuit Voltage (Voc)	35.8V	36.2V	36.3V	36.8V	37.2V

Value at Normal Operating Cell Temperature, Irradiance of 800W/m², AM1.5, Ambient Temperature 20°C, Wind Speed 1m/s.

#### Mechanical Characteristics

Cell Type	Virtus®II(Polycrystalline) 157x157 (±1)mm, 60(6x10) pcs in series
Glass	High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP68 Rated , With Bypass Diodes
Dimension	*1640 x 992 x 35 mm
Output Cable	4 mm²(EU)/12 AWG(US), 900mm
Weight	19kg
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	12	28	28
Pieces per Container	360	840	910

#### Maximum Ratings

Operating Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Maximum Series Fuse Rating	20A