

## 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**



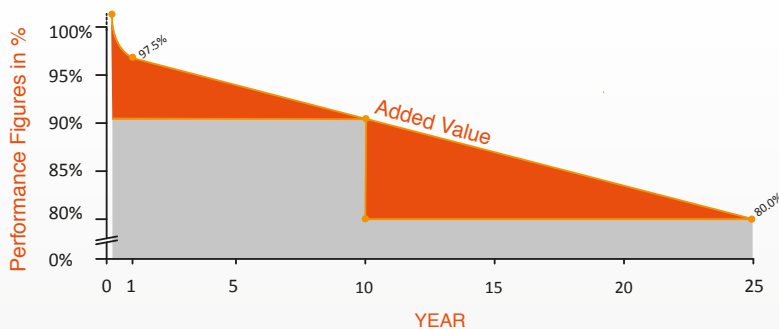
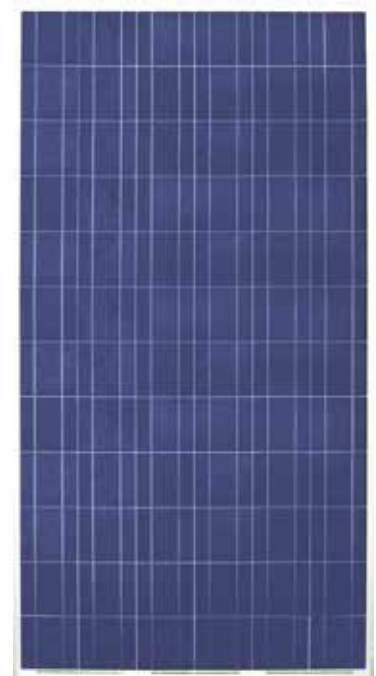
**Conforms with IEC 61215:2005,  
IEC 61730: 2004, UL 1703 PV Standards**



**ISO9001, OHSAS18001, ISO14001 Certified**



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



**10-year**  
material & workmanship

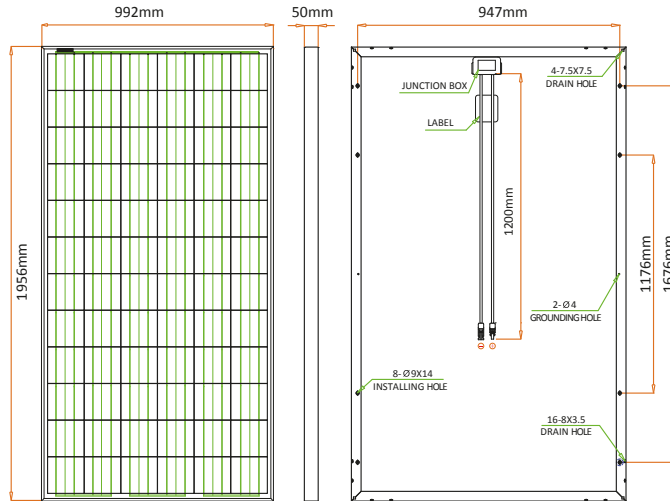
**25-year**  
linear power output



APPROVED PRODUCT

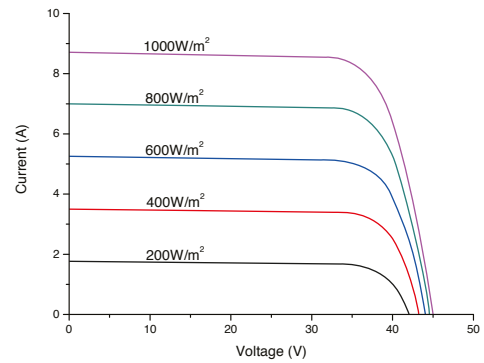


#### Dimensions



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 (Air Mass 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>, spectrum 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 | Characteristics | Temperature Coefficient of Voc            | -0.30%/°C |
| Glass                      | High Transmission, Low Iron, Tempered Glass                      |                 | Temperature Coefficient of Isc            | 0.04%/°C  |
| Frame                      | Anodized Aluminum Alloy  |                 | Temperature Coefficient of Pmax           | -0.40%/°C |
| Junction Box               | IP65/IP67 rated, with bypass diodes                              |                 | Nominal Operating Cell Temperature (NOCT) | 45°C±2°C  |
| Dimension                  | *1956 x 992 x 50 mm  |                 |   |           |
| Output Cable               | 4 mm <sup>2</sup> (EU)/12 AWG (US), 1200 mm                      |                 |   |           |
| Weight                     | 29 Kg  |                 |   |           |
| Installation Hole Location | See Drawing Above  |                 |   |           |

#### Packing Information

|                       | 20' GP | 40' GP | 40' HQ | Maximum Ratings            |                            |
|-----------------------|--------|--------|--------|----------------------------|----------------------------|
| Container             | 20' GP | 40' GP | 40' HQ | Operating Temperature      | -40°C ~ +85°C              |
| Pallets per Container | 10     | 24     | 24     | Maximum System Voltage     | 1000VDC (EU) / 600VDC (US) |
| Pieces per Container  | 200    | 480    | 528    | Maximum Series Fuse Rating | 20A (EU) / 20A (US)        |

Rev No: JC/TDS/2013.02 \*Contact ReneSola for tolerance specification  
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