# ReneSola

Virtus®II

## Virtus®II Module

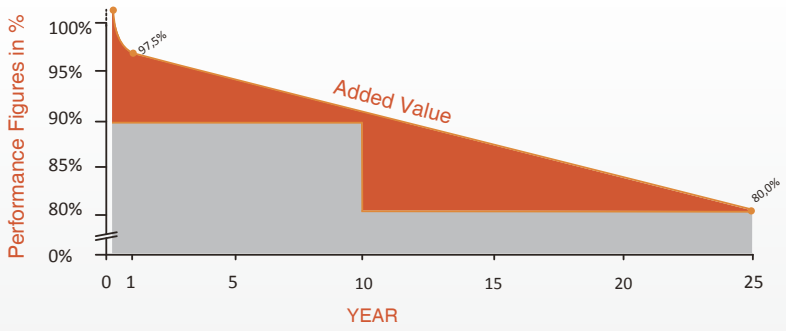
### 300W, 305W, 310W

- **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**

Guarantee




**10-year** *material & workmanship*

**25-year** *linear power output*

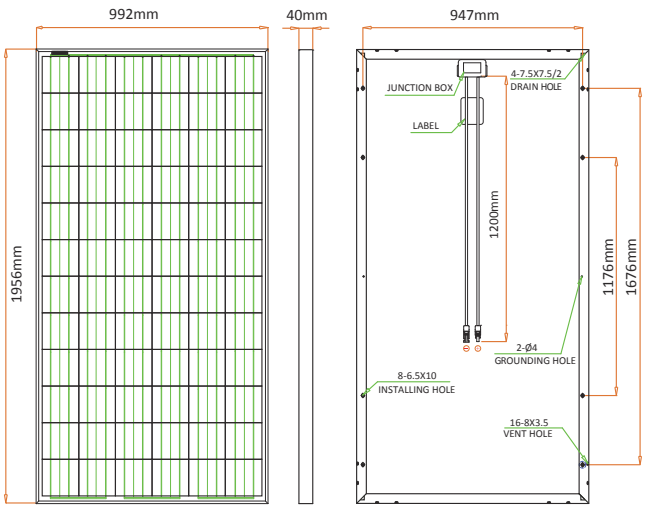
APPROVED PRODUCT

PV CYCLE

# Virtus®II Module

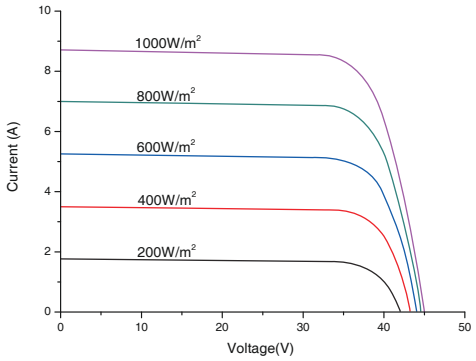
## 300W, 305W, 310W

## Dimensions




Drawing Only for Reference

## I-V Curves




## Varied Irradiation Efficiencies

| Irradiance | 200W/m² | 400W/m² | 600W/m² | 800W/m² | 1000W/m² |
|---|---|---|---|---|---|
| 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/m² , 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/m² , 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 mm² (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 Tating | **20A (EU) / 20A (US)** |

Rev No: JC/TDS/2014.05 *Contact Renesola for tolerance specification

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