

# ReneSola

## 156 Series Polycrystalline Solar Module

235W, 240W, 245W, 250W



High Module Conversion Efficiency



Easy Installation and Handling for Various Applications



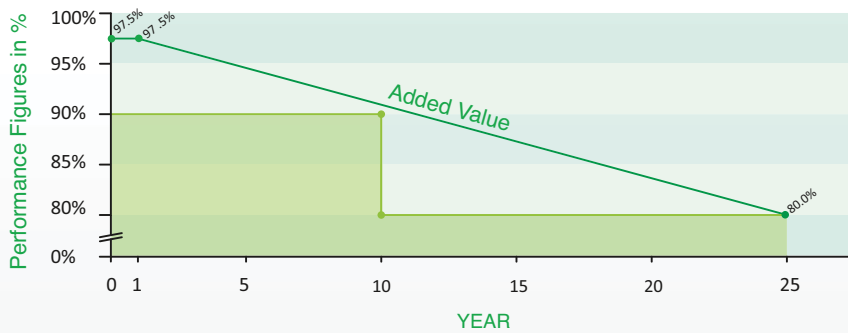
Withstanding Mechanical Load up to 5400 Pa



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



ISO9001, OHSAS18001, ISO14001



● Linear Performance Warranty

● Traditional Warranty

**10-year**  
material & workmanship

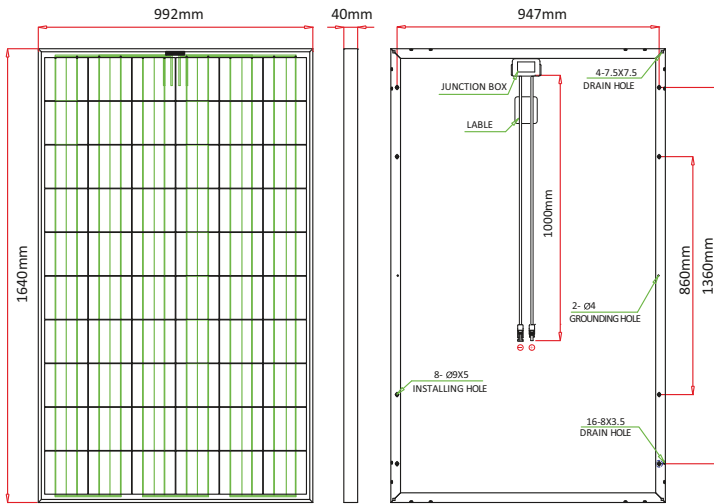
**25-year**  
linear power output



APPROVED PRODUCT

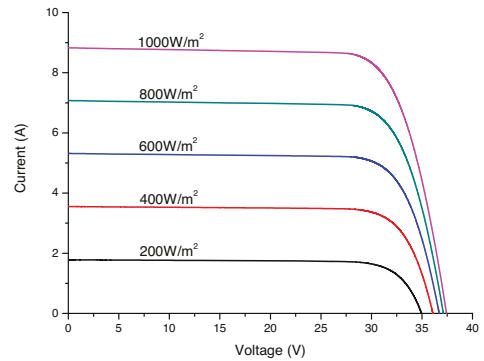


### Dimension



Drawing Only for Reference

### I-V Curves



### Efficiency at Varied Irradiation

| 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 | 15.1%               | 15.4%               | 15.5%               | 15.5%               | 15.4%                |

### Electrical Characteristics STC

|                             | JC235M-24/Bb | JC240M-24/Bb | JC245M-24/Bb | JC250M-24/Bb |
|-----------------------------|--------------|--------------|--------------|--------------|
| Maximum Power (Pmax)        | 235 W        | 240 W        | 245 W        | 250 W        |
| Power Tolerance             | 0 ~ +5W      | 0 ~ +5W      | 0 ~ +5W      | 0 ~ +5W      |
| Module Efficiency           | 14.4%        | 14.8%        | 15.1%        | 15.4%        |
| Maximum Power Current (Imp) | 8.03 A       | 8.08 A       | 8.19 A       | 8.31 A       |
| Maximum Power Voltage (Vmp) | 29.3 V       | 29.7 V       | 29.9 V       | 30.1 V       |
| Short Circuit Current (Isc) | 8.58 A       | 8.64 A       | 8.73 A       | 8.83 A       |
| Open Circuit Voltage (Voc)  | 37.0 V       | 37.2 V       | 37.3 V       | 37.4 V       |

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

### Electrical Characteristics NOCT

|                             | JC235M-24/Bb | JC240M-24/Bb | JC245M-24/Bb | JC250M-24/Bb |
|-----------------------------|--------------|--------------|--------------|--------------|
| Maximum Power (Pmax)        | 174 W        | 178 W        | 182 W        | 185 W        |
| Maximum Power Current (Imp) | 6.42 A       | 6.51 A       | 6.53 A       | 6.57 A       |
| Maximum Power Voltage (Vmp) | 27.1 V       | 27.4 V       | 27.9 V       | 28.2 V       |
| Short Circuit Current (Isc) | 6.92 A       | 6.97 A       | 7.04 A       | 7.12 A       |
| Open Circuit Voltage (Voc)  | 34.4 V       | 34.7 V       | 35.0 V       | 35.0 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                  | 156 x156 mm 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               | 4mm <sup>2</sup> (EU)/12 AWG(US), 1000mm             |
| 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

| Container             | 20' GP | 40' GP | 40' HQ |
|-----------------------|--------|--------|--------|
| Pallets per Container | 12     | 28     | 28     |
| Pieces per Container  | 300    | 700    | 770    |

Rev No: JC7/DS/2012.07 \*Contact Renesola for tolerance specification  
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### Maximum Ratings

|                            |                            |
|----------------------------|----------------------------|
| Operating Temperature      | -40°C ~ +85°C              |
| Maximum System Voltage     | 1000VDC (EU) / 600VDC (US) |
| Maximum Series Fuse Rating | 20A (EU) / 15A (US)        |