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Solar Panel Guide Specification Data Sheet

**ReneSola Ltd.
DG Virtus II Poly 270-290
JC290M-24/Bgw**

Also available on the web at
EnergyPal.com/renesola-ltd-solar-panels/jc290m-24-bgw

Double Glass Module

270W/275W/280W/285W/290W



High Module Conversion Efficiencies



Easy Installa. on and Handling for Various Applications



Mechanical Load Capability of up to 5400 Pa



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

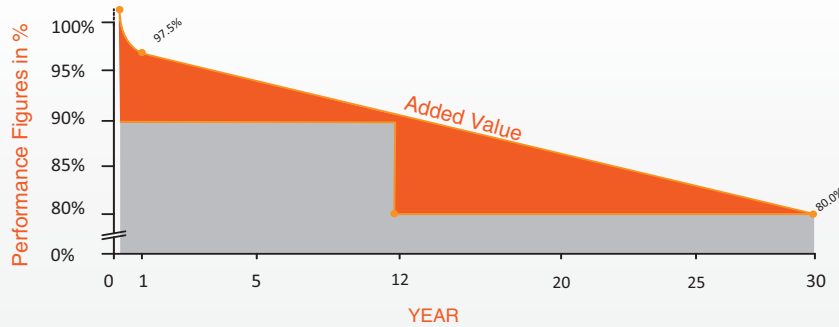
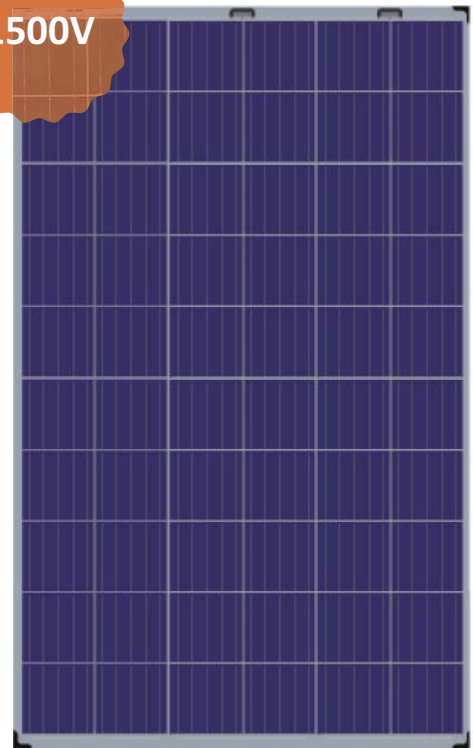


ISO9001, OHSAS18001, ISO14001 Certif ed



Application Class A, Safety Class II, Fire Rating A

1500V

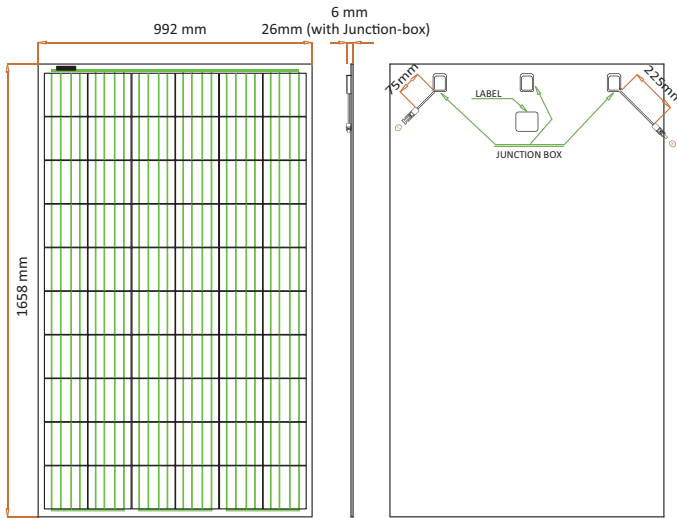


10-year
material & workmanship

30-year
linear power output

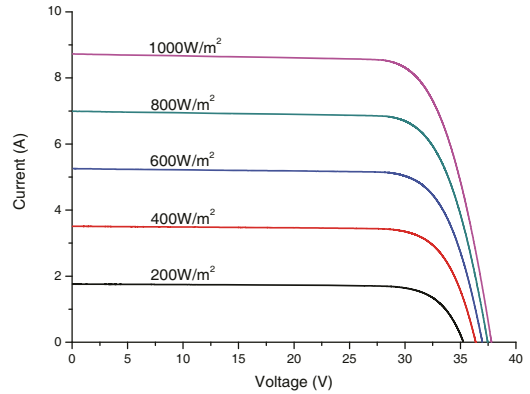


Dimensions



Drawing Only for Reference

I-V Curves



| Electrical Characteristics STC | JC270M-24/Bgw | JC275M-24/Bgw | JC280M-24/Bgw | JC285M-24/Bgw | JC290M-24/Bgw |
|--------------------------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax) | 270 W | 275 W | 280 W | 285 W | 290 W |
| Power Tolerance | 0 ~ +5W | 0 ~ +5W | 0 ~ +5W | 0 ~ +5W | 0 ~ +5W |
| Module Efficiency | 16.4% | 16.7% | 17.0% | 17.3% | 17.6% |
| Maximum Power Current (Imp) | 8.71 A | 8.80 A | 8.89A | 8.97 A | 9.08 A |
| Maximum Power Voltage (Vmp) | 31.0 V | 31.3 V | 31.5 V | 31.8 V | 32.0 V |
| Short Circuit Current (Isc) | 9.18 A | 9.21 A | 9.26 A | 9.31 A | 9.42 A |
| Open Circuit Voltage (Voc) | 38.3 V | 38.5 V | 38.8V | 39.1 V | 39.3 V |

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

| Electrical Characteristics NOCT | JC270M-24/Bgw | JC275M-24/Bgw | JC280M-24/Bgw | JC285M-24/Bgw | JC290M-24/Bgw |
|---------------------------------|---------------|---------------|---------------|---------------|---------------|
| Maximum Power (Pmax) | 200 W | 204 W | 207 W | 211 W | 218 W |
| Maximum Power Current (Imp) | 6.98 A | 7.09 A | 7.15 A | 7.23 A | 7.39 A |
| Maximum Power Voltage (Vmp) | 28.7 V | 28.8 V | 29.0 V | 29.2 V | 29.5 V |
| Short Circuit Current (Isc) | 7.40 A | 7.55 A | 7.62 A | 7.67 A | 7.76 A |
| Open Circuit Voltage (Voc) | 35.7 V | 35.8 V | 36.2 V | 36.3 V | 36.8 V |

Values 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 |
| Superstructure | High Transmission, Low Iron & Semi-Tempered Glass (2.5 mm) |
| Substructure | Semi-Tempered Glass (2.5 mm) |
| Junction Box | IP68 Rated , With Bypass Diodes |
| Dimension | *1658 x 992 x 6 mm (26 mm) for reference |
| Output Cable | 4 mm ² (EU), 225 mm (+), 75mm (-) |
| Weight | 24 kg |
| Frame & Installation Holes | N/A, Special Installation Structure |

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 | 6 | 13 | 26 |
| Pieces per Container | 180 | 390 | 780 |

Maximum Ratings

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