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# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**ReneSola Ltd.  
DG Virtus II Poly 270-290  
JC270M-24/Bgw**

Also available on the web at  
[EnergyPal.com/renesola-ltd-solar-panels/jc270m-24-bgw](http://EnergyPal.com/renesola-ltd-solar-panels/jc270m-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

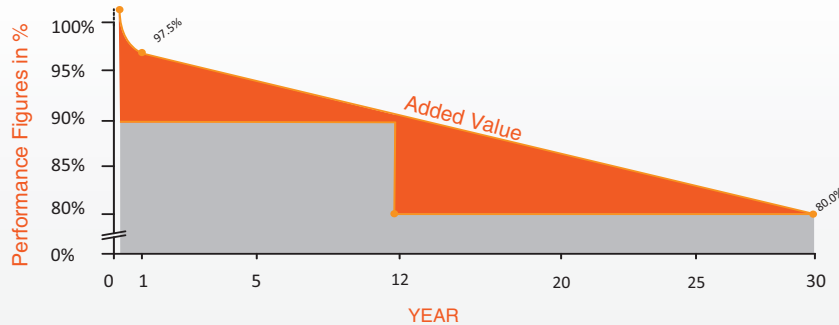
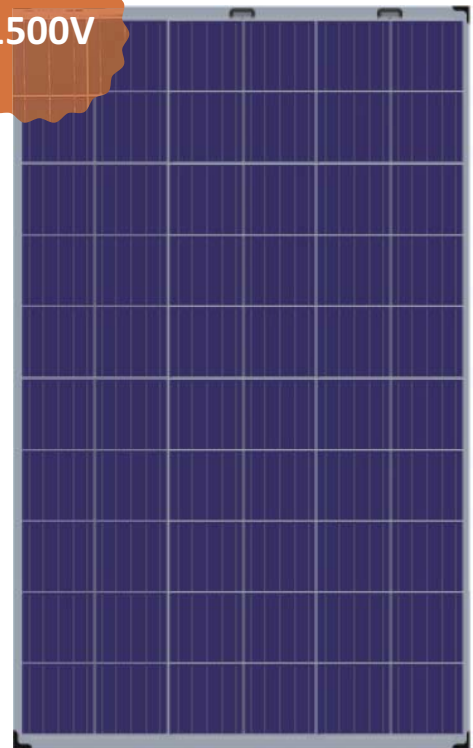


ISO9001, OHSAS18001, ISO14001 Certif ed



Application Class A, Safety Class II, Fire Rating A

1500V

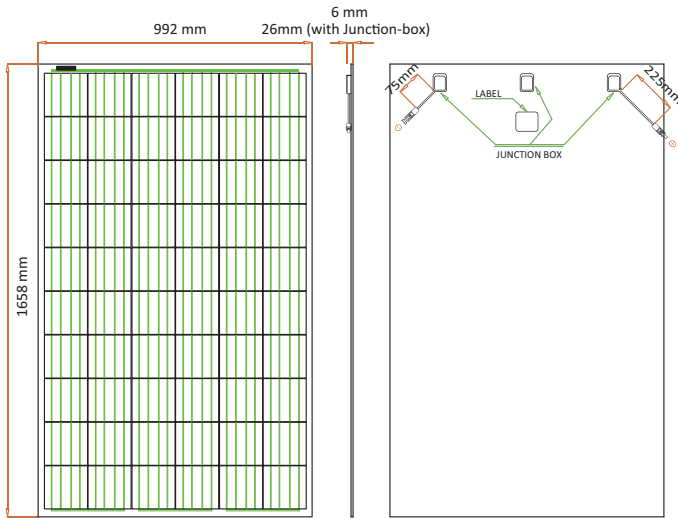


10-year  
material & workmanship

30-year  
linear power output

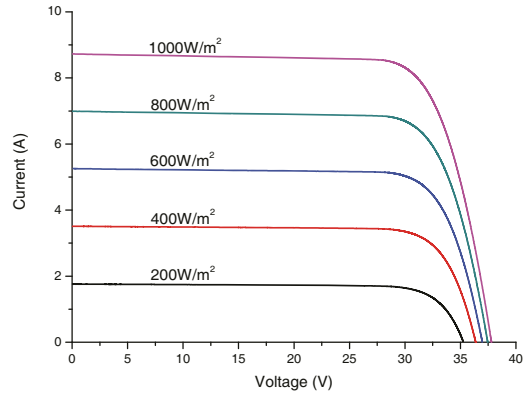


#### Dimensions



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/m<sup>2</sup>, 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/m<sup>2</sup>, 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 <sup>2</sup> (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)