

# ReneSola

## 156 Series Monocrystalline Solar Module

270W/ 275W/280W/285W



High Module Conversion Efficiencies



Easy Installation and Handling for Various Applications



Mechanical Load Capability of up to 5400 Pa



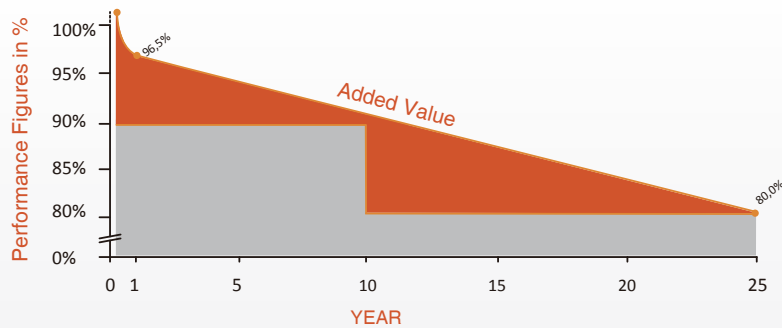
Conforms with IEC 61215:2005,  
IEC 61730:2004, UL 1703 PV Standards



ISO9001, OHSAS18001, ISO14001 Certified



Application Class A, Safety Class II, Fire Rating C



**10-year**  
material & workmanship

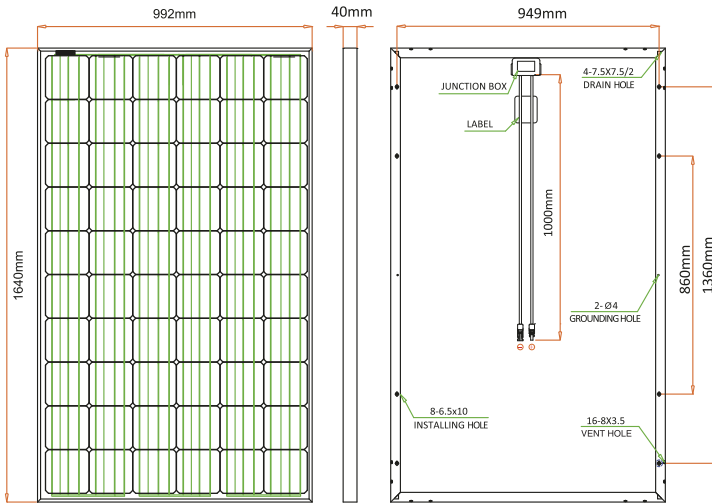
**25-year**  
linear power output



APPROVED PRODUCT

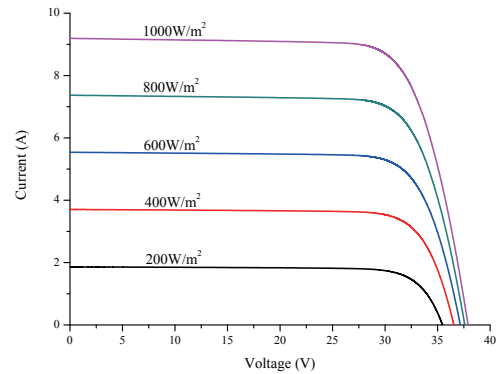


#### Dimensions



Drawing Only for Reference

#### I-V Curves



#### Electrical Characteristics STC

	JC270S-24/Bbs	JC275S-24/Bbs	JC280S-24/Bbs	JC285S-24/Bbs
Maximum Power (Pmax)	270 W	275 W	280 W	285 W
Power Tolerance	0 ~ +5W	0 ~ +5W	0 ~ +5W	0 ~ +5W
Module Efficiency	16.6%	16.9%	17.2%	17.5%
Maximum Power Current (Imp)	8.77 A	8.87 A	8.98 A	9.08 A
Maximum Power Voltage (Vmp)	30.8 V	31.0 V	31.2 V	31.4 V
Short Circuit Current (Isc)	9.28 A	9.35 A	9.43 A	9.53 A
Open Circuit Voltage (Voc)	38.1 V	38.3 V	38.5 V	38.6 V

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

#### Electrical Characteristics NOCT

	JC270S-24/Bbs	JC275S-24/Bbs	JC280S-24/Bbs	JC285S-24/Bbs
Maximum Power (Pmax)	199 W	202 W	206 W	210 W
Maximum Power Current (Imp)	6.86 A	6.93 A	7.02 A	7.10 A
Maximum Power Voltage (Vmp)	29.0 V	29.2 V	29.4 V	29.6 V
Short Circuit Current (Isc)	7.45 A	7.50 A	7.57 A	7.65 A
Open Circuit Voltage (Voc)	35.6 V	35.8 V	36.0 V	36.1 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	156 x156 mm Monocrystalline, 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	4 mm <sup>2</sup> (EU)/12 AWG (US), 1000 mm
Weight	19 kg
Installation Hole Location	See Drawing Above

#### Characteristics

Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Isc	0.03%/°C
Temperature Coefficient of Pmax	-0.43%/°C
Nominal Operating Cell Temperature (NOCT)	45°C±2°C

#### Packing Information

	20' GP	40' GP	40' HQ
Container	20' GP	40' GP	40' HQ
Pallets per Container	12	28	28
Pieces per Container	300/312	700/728	770/798

Rev No: JC/TDS/2016.07 \*Contact ReneSola for tolerance specification  
CAUTION: All rights reserved. Design and specification are subject to change without prior notice.

#### Maximum Ratings

Operating Temperature	-40°C ~ +85°C
Maximum System Voltage	1000VDC
Maximum Series Fuse Rating	20A