

180 Watt

MONO-CRYSTALLINE SOLAR PANEL

Features

- High conversion efficiency based on leading innovative photovoltaic technologies
- High reliability with guaranteed $\pm 3\%$ power output tolerance, ensuring return on investment
- Withstands high wind-pressure and snow load (passed IEC 5400Pa mechanical loading test), and extreme temperature variations

Quality and Safety

- 25-year power output transferable warranty
- Rigorous quality control meeting the highest international standards
- ISO 9001:2000 (Quality Management System) and ISO 14001:2004 (Environmental Management System) certified factories manufacturing world class products
- IEC61215, IEC61730, conformity to CE

Recommended Applications

- Residential roof top systems
- On-grid utility systems
- On-grid commercial systems



Electrical Characteristics

Open - Circuit Voltage (Voc)	44.8V	44.7V	44.4V
Optimum Operating Voltage (Vmp)	36.0V	35.8V	35.6V
Short - Circuit Current (Isc)	5.29A	5.23A	5.15A
Optimum Operating Current (Imp)	5.0A	4.9A	4.8A
Maximum Power at STC (Pmax)	180Wp	175Wp	170Wp
Operating Temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Maximum System Voltage	1000V DC	1000V DC	1000V DC
Maximum Series Fuse Rating	15A	15A	15A
Power Tolerance	±3 %	±3 %	±3 %

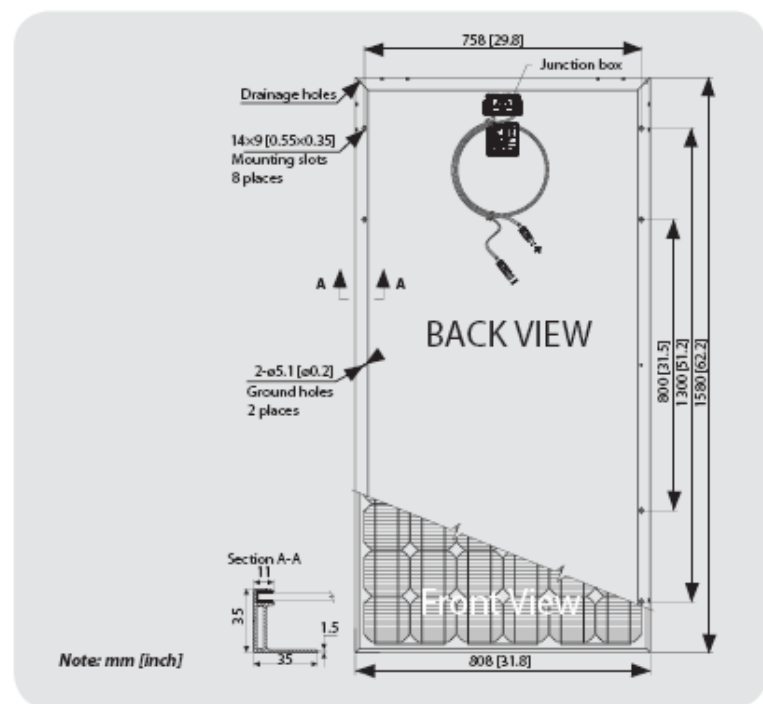
STC: Irradiance 1000W/m², Module temperature 25°C, AM=1.5

Mechanical Characteristics

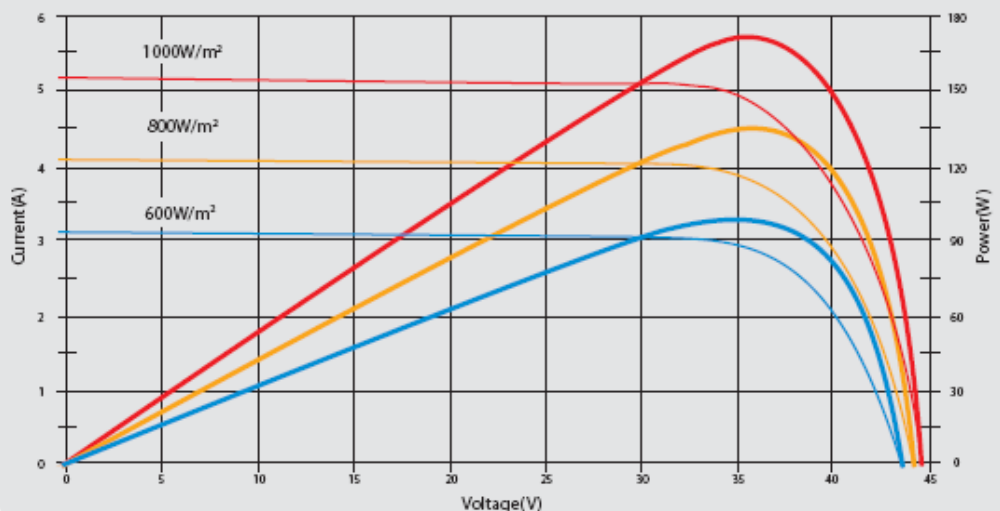
Solar Cell	Mono-crystalline 125×125mm (5inch)
No. of Cells	72 (6×12)
Dimensions	1580×808×35mm (62.2×31.8×1.4inch)
Weight	15.5kg (34.1lbs.)
Front Glass	3.2 mm (0.13inch) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP65 rated
Output Cables	LAPP 4.0mm ² (0.006inch ²), asymmetrical lengths (-) 1200mm(47.2inch) and (+)800mm(31.5inch), MC Plug Type IV connectors

Temperature Coefficients

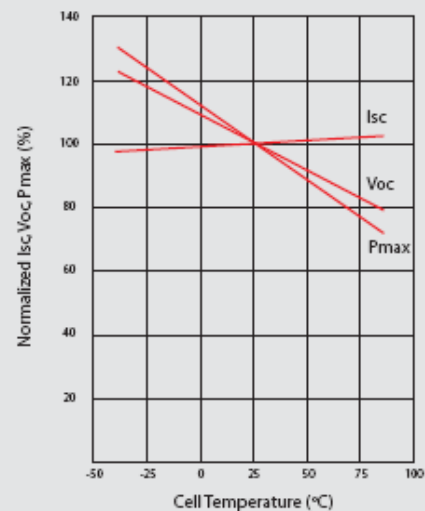
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.48 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.037 %/°C



Current-Voltage & Power-Voltage Curve (175W)



Temperature Dependence of Isc, Voc, Pmax



Specifications are subjected to change without further notice