

180 Watt Maximum Power MONO-CRYSTALLINE SOLAR PANEL

Features

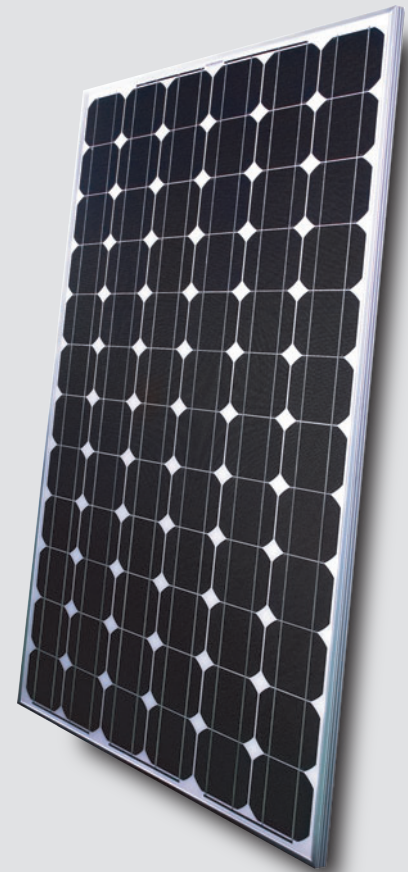
- High conversion efficiency based on leading innovative photovoltaic technologies
- High reliability with guaranteed +/-3% power output tolerance, ensuring return on investment
- Attractive appearance
- Withstands high wind-pressure and snow load, and extreme temperature variations
- Easy to install

Quality and Safety

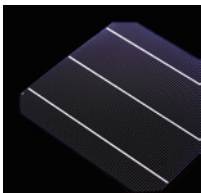
- 25-year power output transferable warranty with PICC insurance
- Rigorous quality control meeting the highest international standards
- ISO 9001:2000 (Quality Management System) and ISO 14001:2004 (Environmental Management System) certified factories manufacturing world class products
- IEC61215, Safety tested IEC61730, conformity to CE, UL listings: UL1703, cULus, Class C fire rating

Recommended Applications

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



    certifications in progress



Suntech's technology yields improvements to BSF structure and anti-reflective coating to increase conversion efficiency



Thermal isolation between the lamination and an advanced specially designed J-box delivers improved performance stability. It also provides complete interconnection between modules and inverters ensuring that the efficiency of the modules can be fully utilized.



Unique design on drainage holes and rigid construction prevents frame from deforming or breaking due to freezing weather and other forces



The panel provides more field power output through an advanced cell texturing and isolation process, which improves low irradiance performance

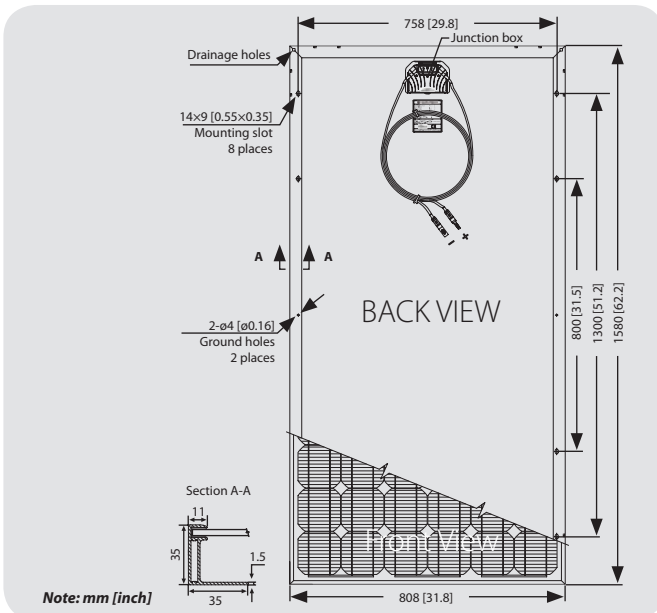


Suntech was named Frost and Sullivan's 2008 Solar Energy Development Company of the Year

Electrical Characteristics

Characteristics	STP180S-24/Ad	STP175S-24/Ad	STP170S-24/Ad
Open - Circuit Voltage (Voc)	44.8V	44.7V	44.4V
Optimum Operating Voltage (Vmp)	36V	35.8V	35.6V
Short - Circuit Current (Isc)	5.29A	5.23A	5.15A
Optimum Operating Current (Imp)	5A	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



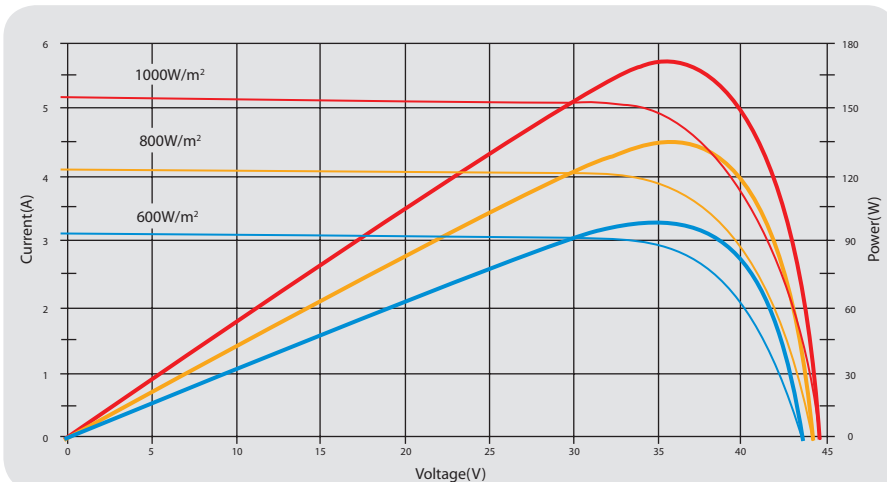
Mechanical Characteristics

Solar Cell	Mono-crystalline 125x125mm (5inch)
No. of Cells	72 (6x12)
Dimensions	1580x808x35mm (62.2x31.8x1.4inch)
Weight	15.5kg (34.1lbs.)
Front Glass	3.2 mm (0.13inch) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated
Output Cables	RADOX® SMART cable 4.0mm ² (0.006inch ²), symmetrical lengths (-) 1000mm (39.4inch) and (+) 1000mm (39.4inch), RADOX® SOLAR integrated twist locking 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	0.017 %/°C

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



Temperature Dependence of Isc, Voc, Pmax

