

Solar powering a green future™

STP180S - 24/Ad STP175S - 24/Ad STP170S - 24/Ad

180 Watt Mono-crystalline solar panel

Features

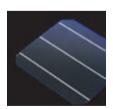
- High conversion efficiency based on leading innovative photovoltaic technologies
- High reliability with guaranteed ±3% power output tolerance, ensuring return on investment
- Withstands high wind-pressure and snow load (passed IEC 5400Pa mechanical loading test), and extreme temperature variations

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 commercial systems
- On-grid utility systems



Unique Suntech Back Surface Field (BSF) structure and anti-reflective coating increase cell conversion efficiency



Thermal isolation between the lamination and latest designed J-box improves panel performance stability. The new J-box also provides perfect interconnection between modules and inverters to ensure the fully utilization of module power output



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



Advanced cell texturing and passivation processes improve module low light irradiance performance and provide more field power output





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

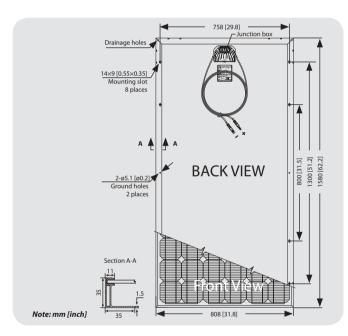
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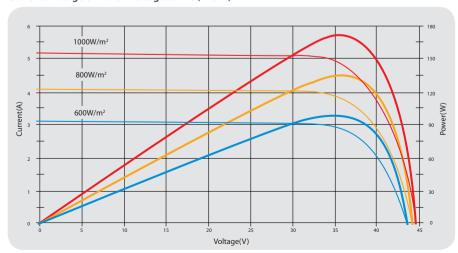
Electrical Characteristics

Characteristics	STP180S-24/Ad	STP175S-24/Ad	STP170S-24/Ad
Open - Circuit Voltage (Voc)	44.8V	44.7V	44.4V
Optimum Operating Voltage (Vmp)	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

Mono-crystalline 125×125mm (5inch)	
72 (6×12)	
1580×808×35mm (62.2×31.8×1.4inch)	
15.5kg (34.1lbs.)	
3.2 mm (0.13inch) tempered glass	
Anodized aluminium alloy	
IP67 rated	
H+S RADOX [®] SMART cable 4.0mm ² (0.006inch ²), symmetrical lengths (-) 1000mm (39.4inch) and (+) 1000mm (39.4inch), RADOX [®] SOLAR integrated twist	

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

Temperature Dependence of Isc, Voc, Pmax

