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SUNTECH 175 WATT STP175S - 24/Ad

175 Watt Mono-crystalline Solar Panel

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

FEATURES AND BENEFITS

» 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 ISO14001:2004 (Environmental Management System) certified factories
» IEC61215, IEC61730, conformity to CE

RECOMMENDED APPLICATIONS

» Residential roof top systems
» On-grid commercial systems
» Design to meet unique demand of customer
» On-grid utility systems

ELECTRICAL CHARACTERISTICS

Model	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 AM=1.5

IEC   TÜV   CE

» **Melbourne**   » **Sydney**   » **Brisbane**   » **Adelaide**   » **Launceston**

Phone our sales offices on 1300 727 151 for more information

Module Diagram

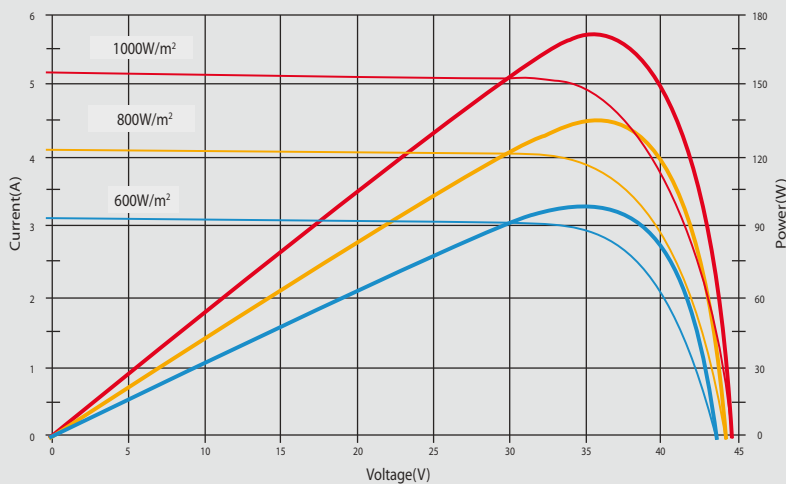### SPECIFICATIONS

Solar Cell	Mono-crystalline 125×125mm (5inch)
No. of cells and connections	72(6×12)
Dimension of module	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	IP67 rated
Output Cables	H+S RADOX® SMART cable 4.0mm2 (0.006inch2), 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	-0.037 %/°C

Module diagram — BACK VIEW / Front View

758 [29.8]
Junction box
Drainage holes
14×9 [0.55×0.35] Mounting slot 8 places
2-ø5.1 [ø0.2] Ground holes 2 places
800 [31.5]
1300 [51.2]
1580 [62.2]
808 [31.8]

Section A-A
11
35
1.5
35
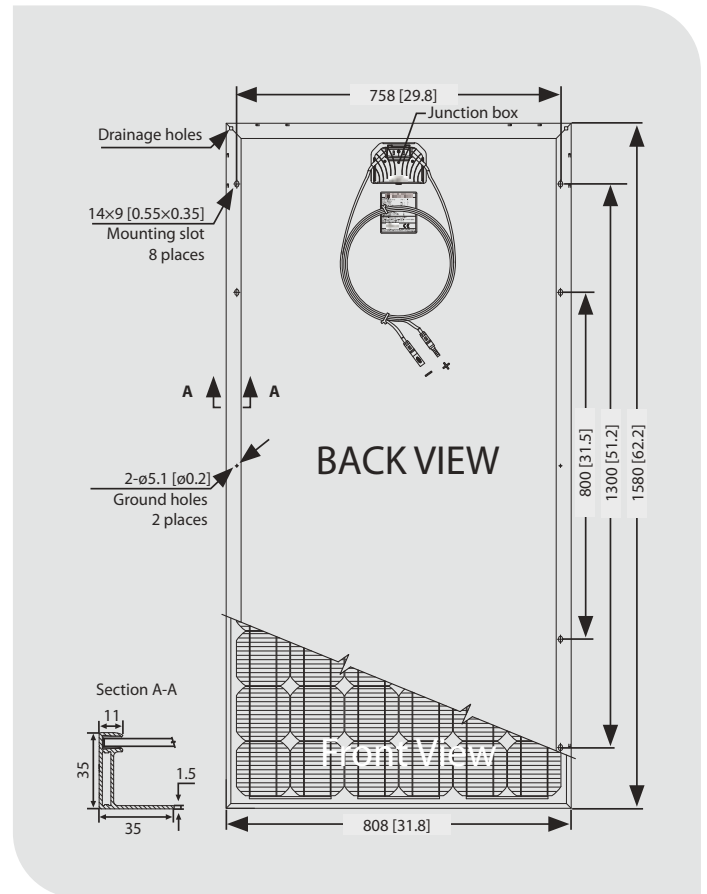
Current-Voltage & Power-Voltage Curve (175W)

1000W/m²
800W/m²
600W/m²
Current(A)
Power(W)
Voltage(V)

Temperature Dependence of Isc, Voc, Pmax

Isc
Voc
Pmax
Cell Temperature (°C)