

# BLACK LABEL™ STP180S - 24/Ad STP175S - 24/Ad



## 180 Watt

### MONOCRYSTALLINE SOLAR MODULE

Suntech Black Label™ modules are exclusively designed and engineered for homeowners who seek a rooftop solar solution that combines visual aesthetics with excellent efficiency.

#### Features



High module conversion efficiency (up to 14.1%), through superior manufacturing technology



Guaranteed 0-5W positive power output tolerance ensures high reliability



Proprietary Gallium-F22 doping process dramatically reduces initial light-induced degradation to <1%, thus delivering better power and performance over time



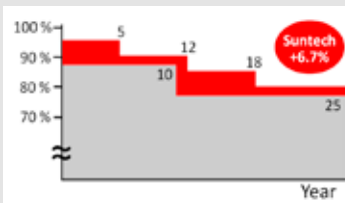
Entire module certified to withstand high wind loads (2400 Pascal) and snow loads (5400 Pascal) \*



#### Trust Suntech to Deliver Reliable Performance Over Time

- World's leading manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards : ISO 9001: 2008 and ISO 14001: 2004
- Certification and standards: IEC 61215, IEC 61730, UL 1703, conformity to CE

#### Industry-leading warranty



- 25 year transferrable power output warranty: 5 year/95%, 12 year/90%, 18 year/85%, 25 year/80% \*\*
- Based on nominal power
- Warrants 6.7% more power than the market standard over 25 years
- 5 year material and workmanship warranty



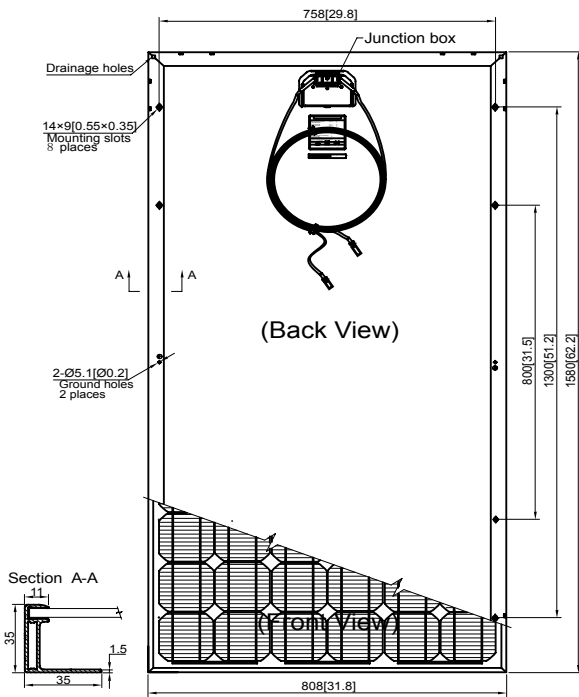
Specially designed on drainage holes and rigid construction prevent frame from deforming or breaking due to freezing weather and other forces



Latest IP67 rated junction box improves module performance stability with enhanced thermal isolation.

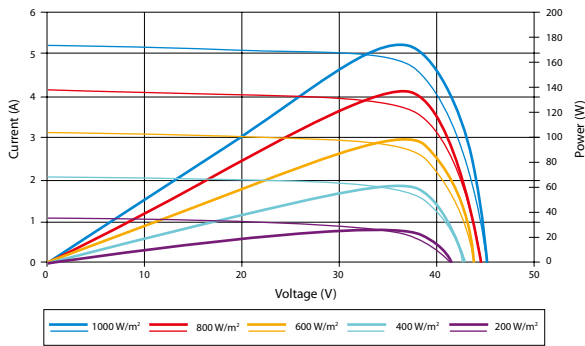
\* Please refer to Suntech Standard Module Installation Manual for details.  
\*\* Please refer to Suntech Product Warranty for details.

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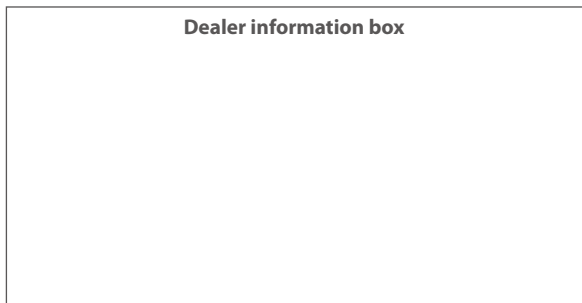
Note: mm [inch]

Current-Voltage & Power-Voltage Curve (175S-24)



## Temperature Characteristics

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



## Electrical Characteristics

STC	STP180S-24/Ad	STP175S-24/Ad
Optimum Operating Voltage (Vmp)	36.2 V	35.8 V
Optimum Operating Current (Imp)	4.97 A	4.90 A
Open - Circuit Voltage (Voc)	45.0 V	44.7 V
Short - Circuit Current (Isc)	5.26 A	5.18 A
Maximum Power at STC (Pmax)	180 Wp	175 Wp
Module Efficiency	14.1%	13.7%
Operating Temperature	-40 °C to +85 °C	-40°C to +85°C
Maximum System Voltage	1000 V DC	1000 V DC
Maximum Series Fuse Rating	15 A	15 A
Power Tolerance	0/+5 W	0/+5 W

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

NOCT	STP180S-24/Ad	STP175S-24/Ad
Maximum Power (W)	131 Wp	128 Wp
Maximum Power Voltage (V)	32.4 V	32.1 V
Maximum Power Current (A)	4.05 A	3.98 A
Open Circuit Voltage (Voc)	40.9 V	40.6 V
Short Circuit Current (Isc)	4.30 A	4.19 A
Efficiency Reduction (from 1000 W/m² to 200 W/m²)	<4.5%	<4.5%

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

## Mechanical Characteristics

Solar Cell	Monocrystalline 125 × 125 mm (5 inches)
No. of Cells	72 (6 × 12)
Dimensions	1580 × 808 × 35mm (62.2 × 31.8 × 1.4 inches)
Weight	15.5 kgs (34.1 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated
Output Cables	H+S RADOX® SMART cable 4.0 mm² (0.006 inches²), symmetrical lengths (-) 1000 mm (39.4 inches) and (+) 1000 mm (39.4 inches), RADOX® SOLAR integrated twist locking connectors

## Packing Configuration

Container	20' GP	40' GP
Pieces per pallet	26	26
Pallets per container	12	28
Pieces per container	312	728

Specifications are subject to change without further notification