STP190S - 24/Adb+
STP185S - 24/Adb+

SUNTECH

Solar powering a green future ™

190 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

14.9%

High module conversion efficiency (up to 14.9%), through superior manufacturing technology

0-5%

Guaranteed 0-5% positive power output tolerance ensures high return on investment

100% Suntech Tru Power™

Suntech's TruPower™ process neutralizes the initial LID effect

2400Pa 5400Pa

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

IEC TÜV CE PV CYCLE
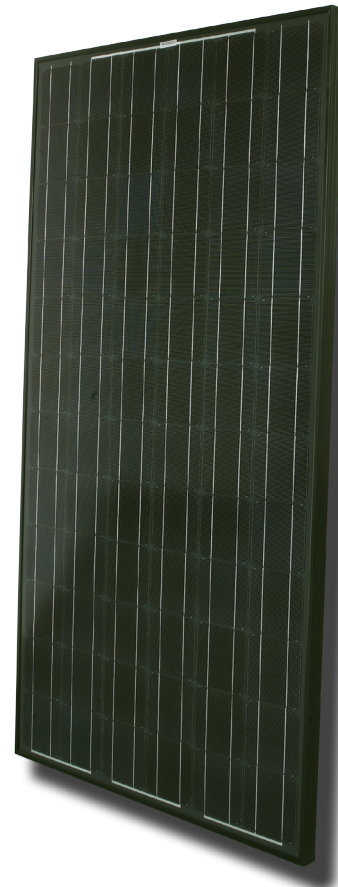
Trust Suntech to Deliver Reliable Performance Over Time

- 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, conformity to CE

Industry-leading warranty

Warranted Power Output

100%
90%
80%
70%
0

5
12
10
18
25

SUNTECH +6.7%
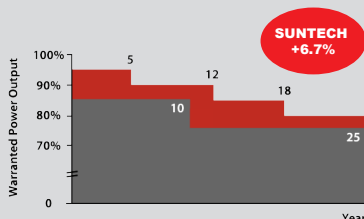
Year

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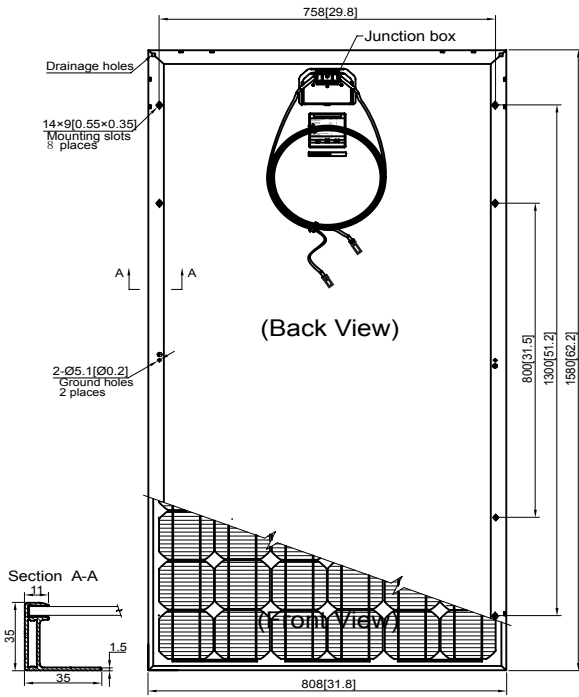- 5 years material and workmanship warranty

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

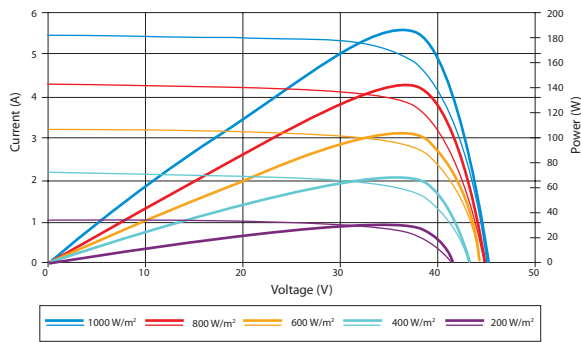Latest IP67 rated junction box improves module stability with enhanced thermal isolation

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

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758[29.8]

Drainage holes

Junction box

14×9[0.55×0.35]
Mounting slots
8 places

A | A

2-Ø5.1[Ø0.2]
Ground holes
2 places

(Back View)

800[31.5]
1300[51.2]
1580[62.2]

Section A-A

11

35

1.5

35

(Front View)

808[31.8]

Note: mm [inch]

Current-Voltage & Power-Voltage Curve (185S-24)

Current (A) / Power (W) / Voltage (V)

1000 W/m² | 800 W/m² | 600 W/m² | 400 W/m² | 200 W/m²

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

Dealer information box

Electrical Characteristics

STC	STP190S-24/Adb+	STP185S-24/Adb+
Optimum Operating Voltage (Vmp)	36.6 V	36.4 V
Optimum Operating Current (Imp)	5.20 A	5.09 A
Open - Circuit Voltage (Voc)	45.2 V	45.0 V
Short - Circuit Current (Isc)	5.62 A	5.43 A
Maximum Power at STC (Pmax)	190 W	185 W
Module Efficiency	14.9 %	14.5 %
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 %	0/+5 %

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

NOCT	STP190S-24/Adb+	STP185S-24/Adb+
Maximum Power (W)	140 W	137 W
Maximum Power Voltage (V)	33.5 V	33.2 V
Maximum Power Current (A)	4.18 A	4.11 A
Open Circuit Voltage (Voc)	41.7 V	41.3 V
Short Circuit Current (Isc)	4.51 A	4.39 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