

STP195S - 24/Ad+ STP190S - 24/Ad+



195 Watt MONOCRYSTALLINE SOLAR MODULE



Features



High module conversion efficiency

15.3%

Up to 15.3%, through superior cell technology and leading manufacturing capability



Self-cleaning & anti-reflective

Anti-reflective, hydrophobic layer improves light absorption and reduces surface dust



Positive tolerance

0/+5%

Guaranteed positive tolerance 0/+5% ensures power output reliability



Excellent weak light performance

Excellent performance under low light environments mornings, evenings, and cloudy days



Extended wind and snow load tests

3800Pa
5400Pa

Entire module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) *



Suntech current sorting process

2%

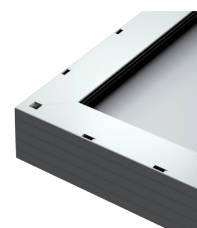
All Suntech modules sorted and packaged by amperage, maximizing system output by reducing mismatch losses by up to 2%

Certifications and standards:
IEC 61215, IEC 61730, conformity to CE



Trust Suntech to Deliver Reliable Performance Over Time

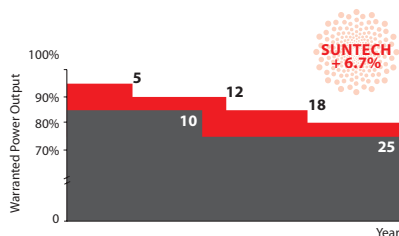
- World's No.1 manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Tested for harsh environment (salt mist and ammonia corrosion testing: IEC 61701, IEC 62716)**



Superior Frame Design

Specially designed drainage holes and rigid construction prevent frames from deforming. Screwless frame design for a long term durability.

Industry-leading Warranty based on Pnom



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

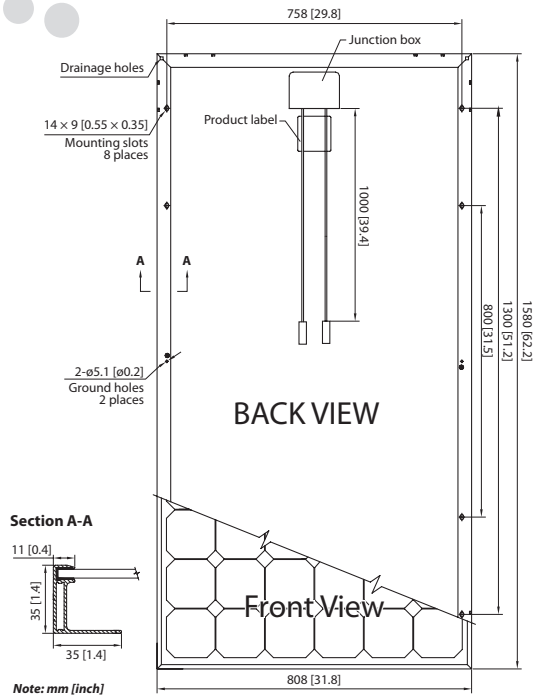


Most Modern IP67 Rated Junction Box

Supports any orientation installation. High performance low resistance connectors ensure maximum module power output for highest energy production.

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

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Electrical Characteristics

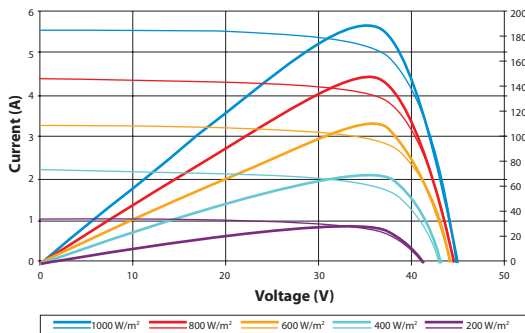
STC	STP195S-24/Ad+	STP190S-24/Ad+
Optimum Operating Voltage (Vmp)	36.6 V	36.6 V
Optimum Operating Current (Imp)	5.33 A	5.20 A
Open Circuit Voltage (Voc)	45.4 V	45.2 V
Short Circuit Current (Isc)	5.69 A	5.62 A
Maximum Power at STC (Pmax)	195 W	190 W
Module Efficiency	15.3%	14.9%
Operating Module Temperature	-40 °C to +85 °C	
Maximum System Voltage	1000 V DC (IEC) / 600 V DC (UL)	
Maximum Series Fuse Rating	15 A	
Power Tolerance	0/+5 %	

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT	STP195S-24/Ad+	STP190S-24/Ad+
Maximum Power at NOCT (Pmax)	142 W	139 W
Optimum Operating Voltage (Vmp)	33.2 V	33.1 V
Optimum Operating Current (Imp)	4.27 A	4.19 A
Open Circuit Voltage (Voc)	41.8 V	41.3 V
Short Circuit Current (Isc)	4.61 A	4.56 A

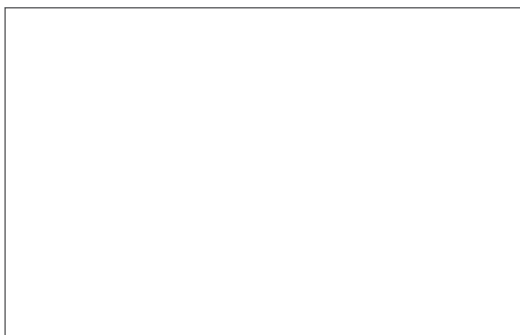
NOCT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Current-Voltage & Power-Voltage Curve (190S-24)



Excellent performance under weak light conditions: at an irradiation intensity of 200 W/m² (AM 1.5, 25 °C), 95.5% or higher of the STC efficiency (1000 W/m²) is achieved

Dealer information



Specifications are subject to change without further notification

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.45 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.050 %/°C

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 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 (3 bypass diodes)
Output Cables	TUV (2Pfg1 169:2007), UL 4703, UL 44 4.0 mm ² (0.006 inches ²), symmetrical lengths (-) 1000mm (39.4 inches) and (+) 1000 mm (39.4 inches)
Connectors	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