

# STP250S - 20/Wd STP245S - 20/Wd



## 250 Watt MONOCRYSTALLINE SOLAR MODULE



### Features



#### High module conversion efficiency

15.4%

Up to 15.4%, 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%

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

Certifications and standards:  
UL1703, IEC 61215, IEC 61730, conformity to CE



### Trust Suntech to Deliver Reliable Performance Over Time

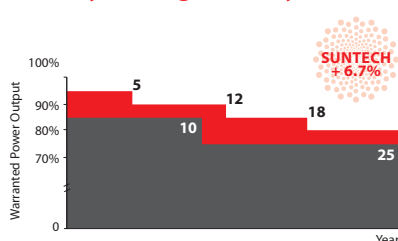
- World's No.1 manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Tested for harsh environment (salt mist and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

### New Improved Frame Design



Suntech's new rigid and reliable hollow chamber frame provides four additional grounding options for increased design flexibility and easier installation. Anti-counterfeit mark lets you know you're receiving genuine Suntech products.

### 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



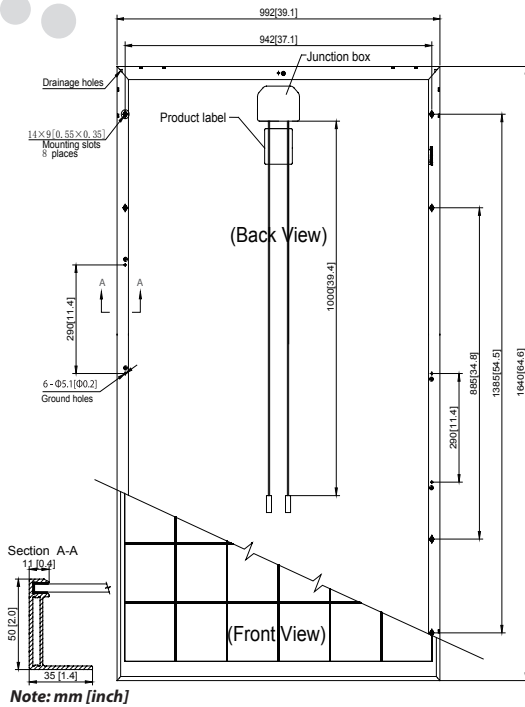
Supports any orientation installation. High performance low resistance MC4 connectors ensure maximum module power output for highest energy production.

\* Please refer to Suntech Standard Module Installation Manual for details. \*\*PV Cycle only for EU market.

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

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# STP245S - 20/Wd



## Electrical Characteristics

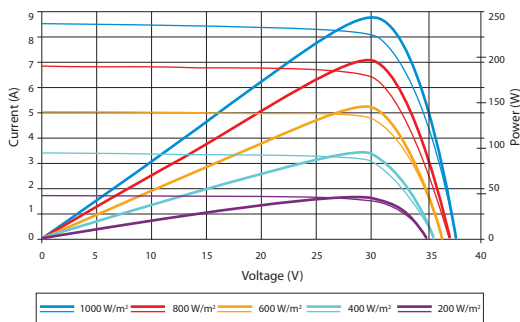
STC	STP250S-20/Wd	STP245S-20/Wd
Optimum Operating Voltage (Vmp)	30.7 V	30.5 V
Optimum Operating Current (Imp)	8.15 A	8.04 A
Open Circuit Voltage (Voc)	37.4 V	37.3 V
Short Circuit Current (Isc)	8.63 A	8.52 A
Maximum Power at STC (Pmax)	250 W	245 W
Module Efficiency	15.4%	15.1%
Operating Module Temperature	-40 °C to +85 °C	
Maximum System Voltage	1000 V DC (IEC) / 600 V DC (UL)	
Maximum Series Fuse Rating	20 A	
Power Tolerance	0/+5 %	

STC: Irradiance 1000 W/m<sup>2</sup>, module temperature 25 °C, AM=1.5;  
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT	STP250S-20/Wd	STP245S-20/Wd
Maximum Power at NOCT (Pmax)	183 W	180 W
Optimum Operating Voltage (Vmp)	27.9 V	27.8 V
Optimum Operating Current (Imp)	6.55 A	6.46 A
Open Circuit Voltage (Voc)	34.4 V	34.3 V
Short Circuit Current (Isc)	6.96 A	6.89 A

NOCT: Irradiance 800 W/m<sup>2</sup>, 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 (245S-20)



Excellent performance under weak light conditions: at an irradiance intensity of 200 W/m<sup>2</sup> (AM 1.5, 25 °C), 95.5% or higher of the STC efficiency (1000 W/m<sup>2</sup>) is achieved

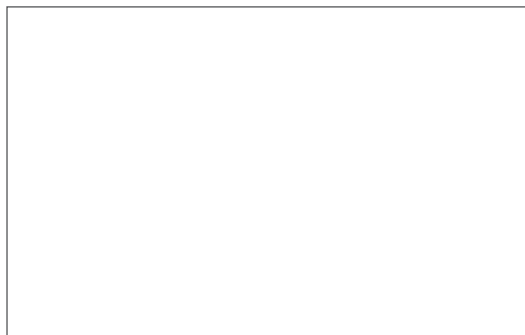
## Temperature Characteristics

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 156 × 156 mm (6 inches)
No. of Cells	60 (6 × 10)
Dimensions	1640 × 992 × 50mm (64.6 × 39.1 × 2.0 inches)
Weight	19.1 kgs (42.1 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 (2Pfg1169:2007), UL 4703, UL 44 4.0 mm <sup>2</sup> (0.006 inches <sup>2</sup> ), symmetrical lengths (-) 1000mm (39.4 inches) and (+) 1000 mm (39.4 inches)
Connectors	MC4 connectors

## Dealer information



Specifications are subject to change without further notification

## Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	21	21
Pallets per container	6	28
Pieces per container	126	588