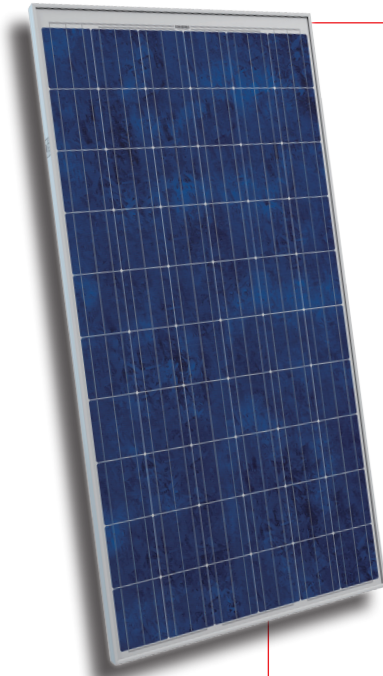


**STP250 - 20/Wd**  
**STP245 - 20/Wd**  
**STP240 - 20/Wd**



## 250 Watt POLYCRYSTALLINE SOLAR MODULE



### Features



#### High module conversion efficiency

15.4%

Module efficiency up to 15.4% achieved through advanced cell technology and manufacturing capabilities



#### Self-cleaning & anti-reflective

Higher module efficiency from anti-reflective, hydrophobic layer with higher light absorption and minimal surface dust



#### Positive tolerance

0/+5%

Guaranteed positive tolerance of up to 5% delivers higher outputs reliably



#### Excellent weak light performance

Excellent performance under low light conditions



#### Extended wind and snow load tests

3800Pa  
5400Pa

Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) \*



#### Suntech current sorting process

2%

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage

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



### Trust Suntech to Deliver Reliable Performance Over Time

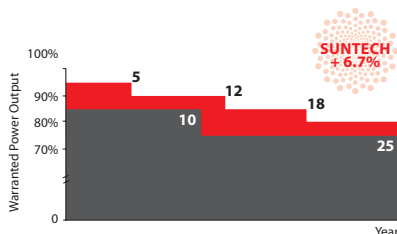
- World's no.1 manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Tested for harsh environments (salt mist and ammonia corrosion testing: IEC 61701, DIN 50916:1985 T2)\*\*\*



### Compact and Durable Frame Design

Suntech's new compact frame design is light-weight (~1 kg (3.5 lbs) lighter) and easier to handle during installation. The rigid and durable hollow chamber guarantees the same long-term and reliable performance.

### Industry-leading Warranty based on nominal power



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



### Reliable IP67 Rated Junction Box

Supports installations in multiple orientations. High performance, low resistance connectors ensure maximum output for the 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.

**STP250 - 20/Wd**  
**STP245 - 20/Wd**  
**STP240 - 20/Wd**



**Electrical Characteristics**

STC	STP250-20/Wd	STP245-20/Wd	STP240-20/Wd
Maximum Power at STC (Pmax)	250 W	245 W	240 W
Optimum Operating Voltage (Vmp)	30.7 V	30.5 V	30.2 V
Optimum Operating Current (Imp)	8.15 A	8.04 A	7.95 A
Open Circuit Voltage (Voc)	37.4 V	37.3 V	37.2 V
Short Circuit Current (Isc)	8.63 A	8.52 A	8.43 A
Module Efficiency	15.4%	15.1%	14.8%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1000 V DC (IEC)		
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	STP250-20/Wd	STP245-20/Wd	STP240-20/Wd
Maximum Power at NOCT (Pmax)	184 W	181 W	177 W
Optimum Operating Voltage (Vmp)	28.0 V	27.8 V	27.6 V
Optimum Operating Current (Imp)	6.58 A	6.50 A	6.43 A
Open Circuit Voltage (Voc)	34.5 V	34.3 V	34.1 V
Short Circuit Current (Isc)	6.99 A	6.92 A	6.84 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%

**Temperature Characteristics**

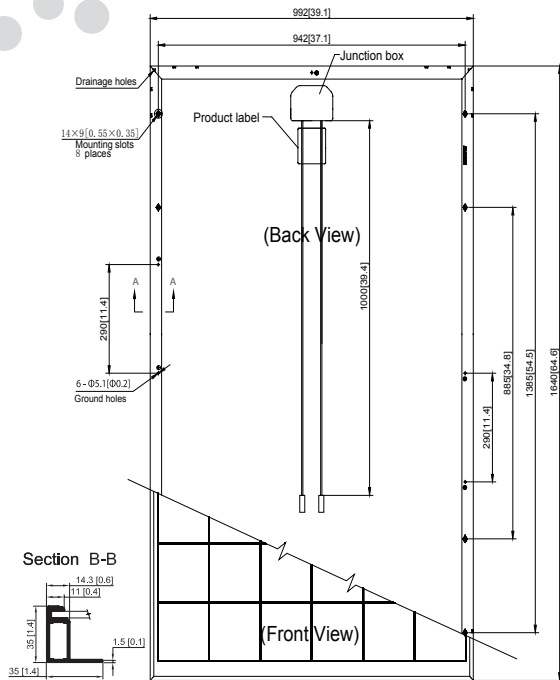
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.44 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.055 %/°C

**Mechanical Characteristics**

Solar Cell	Polycrystalline silicon 156 × 156 mm (6 inches)
No. of Cells	60 (6 × 10)
Dimensions	1640 × 992 × 35mm (64.6 × 39.1 × 1.4 inches)
Weight	18.2 kgs (40.1 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 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

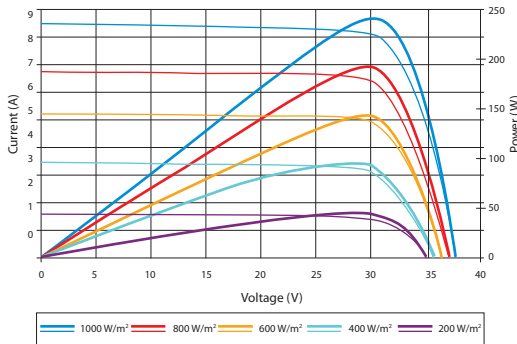
**Packing Configuration**

Container	20' GP	40' HC
Pieces per pallet	30	30
Pallets per container	6	28
Pieces per container	180	840



Note: mm [inch]

**Current-Voltage & Power-Voltage Curve(245-20)**



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

**Dealer information**



Specifications are subject to change without further notification