SUNTECH

SuperPoly

120 HALF-CELL POLYCRYSTALLINE MODULE

280-300 Watt

STP*XXX* - 60/Wfh

Features

High module conversion efficiency
Module efficiency up to 17.8 % achieved through advanced cell technology and manufacturing process

Suntech current sorting process
Up to 2 % power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output

Excellent weak light performance
More power output in weak light condition, such as cloudy, morning and sunset

Lower operating temperature
Lower operating temperature and temperature coefficient increases the power output

Extended wind and snow load tests
Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) *

Withstanding harsh environment
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

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

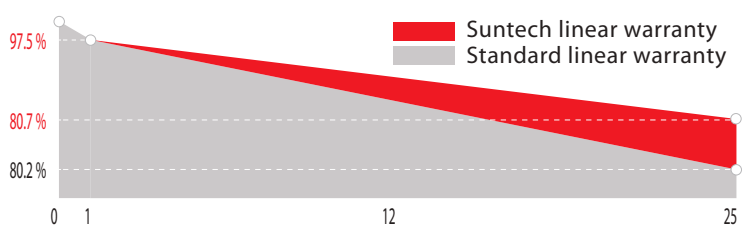
Trust Suntech to Deliver Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001and ISO17025
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing testing: IEC 61701, IEC 62716, DIN EN 60068-2-68) ***
- Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free modules

Special Cell Design

The unique cell design leads to reduced electrodes resistance and smaller current, thus enables higher fill factor. Meanwhile, it can reduce losses of mismatch and cell wear, and increase total reflection.

Industry-leading Warranty based on nominal power



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-2.5%	-0.70%	12 years	25 years
First year power degradation	Annual degradation	Product warranty	linear warranty

IP68 Rated Junction Box

The Suntech IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables.

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

STP300 - 60/Wfh
STP295 - 60/Wfh
STP290 - 60/Wfh

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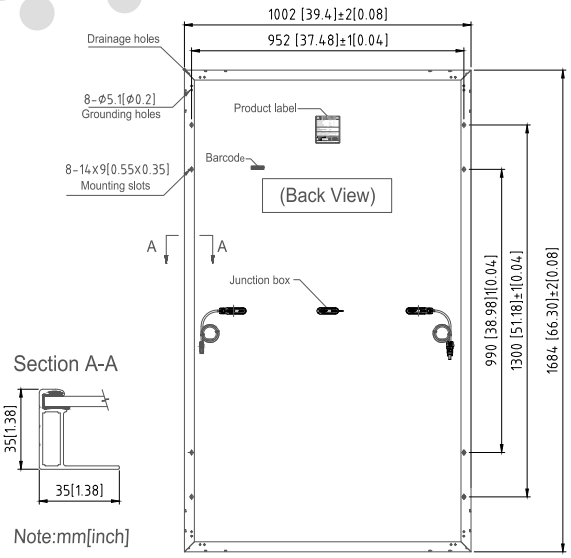


Electrical Characteristics

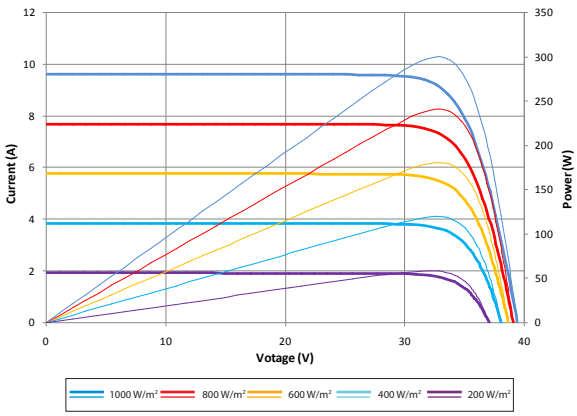
STC	STP300-60/ Wfh	STP295-60/ Wfh	STP290-60/ Wfh
Maximum Power at STC (Pmax)	300 W	295 W	290 W
Optimum Operating Voltage (Vmp)	32.7 V	32.5 V	32.3 V
Optimum Operating Current (Imp)	9.18 A	9.08 A	8.99 A
Open Circuit Voltage (Voc)	39.4 V	39.2 V	39.0 V
Short Circuit Current (Isc)	9.62 A	9.55 A	9.47 A
Module Efficiency	17.8%	17.5%	17.2%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1000/1500 V DC (IEC)		
Maximum Series Fuse Rating	20 A		
Power Tolerance	0/+5 W		

STC: Irradiance 1000 W/m2, module temperature 25 °C, AM=1.5;
Tolerance of Pmax is +/- 3% and tolerances of Voc and Isc are all within +/- 5%.

NMOT	STP300-60/ Wfh	STP295-60/ Wfh	STP290-60/ Wfh
Maximum Power at NMOT (Pmax)	224.1 W	221.5 W	216.8 W
Optimum Operating Voltage (Vmp)	30.3 V	30.2 V	29.8 V
Optimum Operating Current (Imp)	7.40 A	7.34 A	7.27 A
Open Circuit Voltage (Voc)	36.6 V	36.6 V	36.3 V
Short Circuit Current (Isc)	7.79 A	7.73 A	7.67 A

NMOT: Irradiance 800 W/m2, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

Current-Voltage & Power-Voltage Curve (300)



Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42 ± 2°C
Temperature Coefficient of Pmax	-0.38%/°C
Temperature Coefficient of Voc	-0.321%/°C
Temperature Coefficient of Isc	0.050%/°C

Mechanical Characteristics

Solar Cell	Polycrystalline silicon 6 inches
No. of Cells	120 (6 × 20)
Dimensions	1684 × 1002 × 35mm (66.3× 39.4 × 1.4 inches)
Weight	19.0 kgs (41.9 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm2 Portrait: (-)350 mm and (+) 160 mm in length Landscape: (-)1200 mm and (+)1200 mm in length or customized length
Connectors	MC4 compatible (1000V) MC4 EVO2, Cable01S (1500V)

Dealer information

Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	31	31
Pallets per container	6	26
Pieces per container	186	806

Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.