

HIPro Series 120-CELL HALF CUT POLYCRYSTALLINE

SOLAR MODULE

285-305 Watt

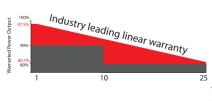
STPXXX - A60/Wfh



Trust Suntech to Deliver Reliable Performance Over Time

- World-class 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
- 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

Industry-leading Warranty based on nominal power



- 97.5% in the first year, thereafter, for years two (2) through twenty-five (25), 0.7% maximum decrease from MODULE's nominal power output per year, ending with the 80.7% in the 25th year after the defined WARRANTY STARTING DATE.****
- 12-year product warranty
- 25-year linear performance warranty



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.

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. High reliable performance, low resistance connectors ensure maximum output for the highest energy production.

* 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.

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Electrical Characteristics

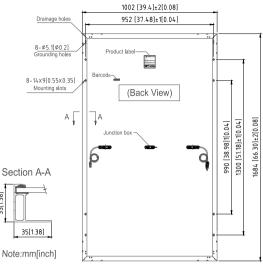
STC	STPXXX-A60/Wfh				
Maximum Power at STC (Pmax)	305 W	300 W	295 W	290 W	285 W
Optimum Operating Voltage (Vmp)	32.7 V	32.5 V	32.3 V	32.1 V	31.9 V
Optimum Operating Current (Imp)	9.33 A	9.24 A	9.14 A	9.04 A	8.94 A
Open Circuit Voltage (Voc)	39.4 V	39.2 V	39.0 V	38.8 V	38.6 V
Short Circuit Current (Isc)	9.75 A	9.66 A	9.56 A	9.46 A	9.36 A
Module Efficiency	18.1%	17.8%	17.5%	17.2%	16.9%
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 within +/- 3% and tolerances of Voc and Isc are within +/- 5%.

NMOT	STPXXX-A60/Wfh				
Maximum Power at NMOT (Pmax)	228.9 W	225.3 W	221.4 W	217.7 W	213.9 W
Optimum Operating Voltage (Vmp)	30.6 V	30.5V	30.3 V	30.1 V	29.9 V
Optimum Operating Current (Imp)	7.47 A	7.40 A	7.32 A	7.24 A	7.16 A
Open Circuit Voltage (Voc)	36.9 V	36.7 V	36.5 V	36.4 V	36.2 V
Short Circuit Current (Isc)	7.86 A	7.79 A	7.71 A	7.63 A	7.55 A

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





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Temperature Characteristics

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

Current-Voltage & Power-Voltage Curve (305) 12 350 300 10 250 Current (A) 200 Power (W) 150 100 50 30 10 40 Votage (V) = 1000 W/m² = 800 W/m² 600 W/m² = 400 W/m² 200 W/m²

Mechanical Characteristics

Solar Cell	Polycrystalline silicon 158.75 mm
No. of Cells	120 (6 × 20)
Dimensions	1684 × 1002 × 35 mm (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 mm ² , Portrait: (-)350 mm and (+)160 mm in length Landscape: (-)1200 mm and (+)1200 mm in length or customized length
Connectors	1000 V: MC4 compatible 1500 V: MC4 EVO2, Cable 01S

Packing Configuration

Container	20' GP	40′ HC	
Pieces per pallet	31	31	
Pallets per container	6	26	
Pieces per container	186	806	
Packaging box dimensions	1736 × 1130 × 1166 mm		
Packaging box weight	625 kg		



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 specifications