

HIPerforma Series

120-CELL HALF CUT BIFACIAL
MONOCRYSTALLINE SOLAR MODULE

350-375 Watt

STPXXXS - B60/Pnh+



Features



High power output

Compared to 158.75 mm module, the power output can increase 25 - 30 W



Suntech current sorting process

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



Excellent weak light performance

More power output in weak light condition, such as haze, cloudy, and morning



Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



Extended load tests

Module certified to withstand front side maximum static test load (5400 Pascal) and rear side maximum static test loads (3800 Pascal) *



Withstanding harsh environment

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

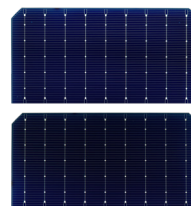
Certifications and standards:
IEC 61215, IEC 61730, conformity to CE



Trust Suntech to Deliver Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free modules

High efficiency Bifacial cell



9 BB

By using bifacial cell and double glass technology, the frontside power can reach to 375 W, and the backside power generation can increase up to 25%.

Industry-leading Warranty based on nominal power



- 98% in the first year, thereafter, for years two (2) through thirty (30), 0.45% maximum decrease from MODULE's nominal power output per year, ending with the 84.95% in the 30th year after the defined WARRANTY STARTING DATE.***
- 12-year product warranty
- 30-year linear performance 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. 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 Warranty for details.
made in China & Vietnam

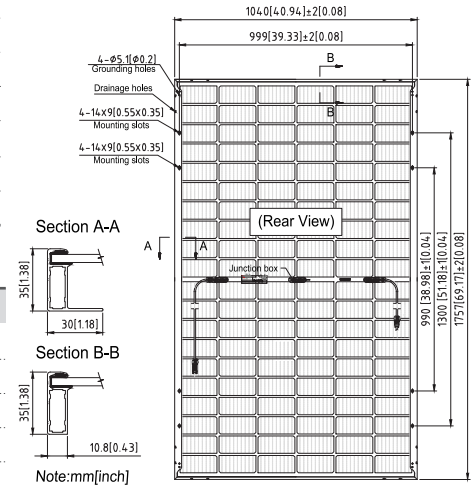
Electrical Characteristics

STC	STPXXXS-B60/Pnh+					
Maximum Power at STC (Pmax)	375 W	370 W	365 W	360 W	355 W	350 W
Optimum Operating Voltage (Vmp)	34.5 V	34.3 V	34.1 V	33.9 V	33.7 V	33.5 V
Optimum Operating Current (Imp)	10.87 A	10.79 A	10.71 A	10.62 A	10.54 A	10.46 A
Open Circuit Voltage (Voc)	41.1 V	40.9 V	40.7 V	40.5 V	40.3 V	40.1 V
Short Circuit Current (Isc)	11.57 A	11.49 A	11.42 A	11.35 A	11.28 A	11.21 A
Module Efficiency	20.5 %	20.2 %	20.0 %	19.7 %	19.4 %	19.2 %
Operating Module Temperature	-40 °C to +85 °C					
Maximum System Voltage	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 +/- 5% and tolerances of Voc and Isc are within +/- 5%.

NMOT	STPXXXS-B60/Pnh+					
Maximum Power at NMOT (Pmax)	281.9 W	278.2 W	274.3 W	270.7 W	266.8 W	263.3 W
Optimum Operating Voltage (Vmp)	32.2 V	32.0 V	31.8 V	31.6 V	31.5 V	31.3 V
Optimum Operating Current (Imp)	8.76 A	8.69 A	8.62 A	8.56 A	8.48 A	8.42 A
Open Circuit Voltage (Voc)	38.9 V	38.7 V	38.5 V	38.4 V <td 38.2 V	38.0 V	
Short Circuit Current (Isc)	9.24 A	9.17 A	9.10 A	9.04 A	8.96 A	8.89 A

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



Electrical Characteristics with Different Rearside Power Gain(Reference to 365 W Front)

Rearside Power Gain	5 %	15 %	25 %
Maximum Power at STC (Pmax)	383 W	420 W	456 W
Optimum Operating Voltage (Vmp)	34.1 V	34.1 V	34.2 V
Optimum Operating Current (Imp)	11.25 A	12.32 A	13.39 A
Open Circuit Voltage (Voc)	40.7 V	40.7 V	40.8 V
Short Circuit Current (Isc)	11.99 A	13.13 A	14.28 A
Module Efficiency	21.0 %	23.0 %	25.0 %

Temperature Characteristics

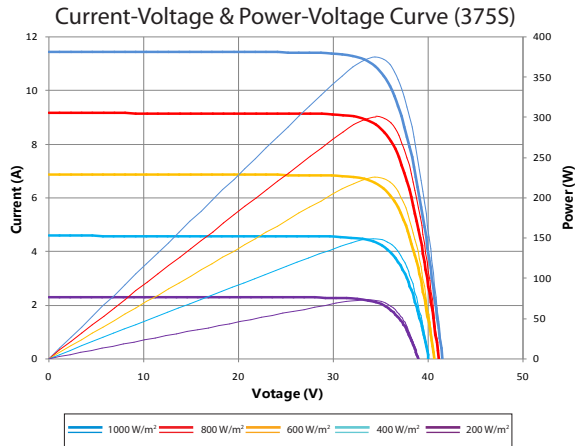
Nominal Module Operating Temperature (NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 166 mm
No. of Cells	120 (6 × 20)
Dimensions	1757 × 1040 × 35 mm (69.2 × 40.9 × 1.4 inches)
Weight	23.9 kgs (52.69 lbs.)
Front Glass	2.0 mm (0.079 inches) semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated
Output Cables	4.0 mm ² , (-)350 mm and (+)160 mm in length or customized length
Connectors	Genuine MC4 EVO2, TL-Cable015
Refer. Bifaciality Factor	(70 ± 5)%
Fire Class Rating	C in accordance with UL 790

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	1786 × 1130 × 1203 mm	
Packaging box weight	679 kg	



Dealer information

