SUNTECH

HIPower Series

120-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE

350-370 Watt

STP*XXX*S - B60/Wnh

Features

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

High PID resistant
Advanced cell technology and qualified materials lead to high resistance to PID

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) *

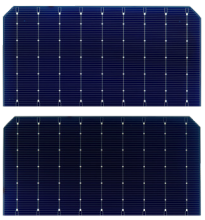
Withstanding harsh environment
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

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

Trust Suntech to Deliver Reliable Performance Over Time

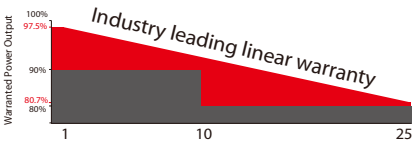
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO17025
- Regular independently checked production process from international accredited institute/company
- 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 × 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



- 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

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.

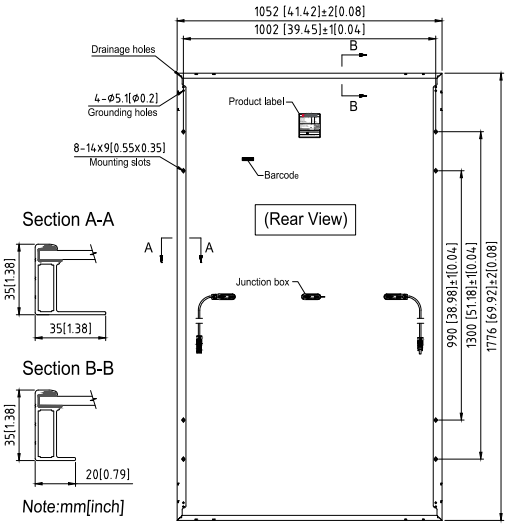
Electrical Characteristics

STC	STPXXXS-B60/Wnh				
Maximum Power at STC (Pmax)	370W	365W	360W	355W	350W
Optimum Operating Voltage (Vmp)	34.3V	34.1V	33.9V	33.7V	33.5V
Optimum Operating Current (Imp)	10.79A	10.71A	10.62A	10.54A	10.46A
Open Circuit Voltage (Voc)	40.9V	40.7V	40.5V	40.3V	40.1V
Short Circuit Current (Isc)	11.49A	11.42A	11.35A	11.28A	11.21A
Module Efficiency	19.8%	19.5%	19.3%	19.0%	18.7%
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 +/- 3% and tolerances of Voc and Isc are within +/- 5%.

NMOT	STPXXXS-B60/Wnh				
Maximum Power at NMOT (Pmax)	278.2W	274.3W	270.7W	266.8W	263.3W
Optimum Operating Voltage (Vmp)	32.V	31.8V	31.6V	31.5V	31.3V
Optimum Operating Current (Imp)	8.69A	8.62A	8.56A	8.48A	8.42A
Open Circuit Voltage (Voc)	38.7V	38.5V	38.4V	38.2V	38.V
Short Circuit Current (Isc)	9.17A	9.1A	9.04A	8.96A	8.89A

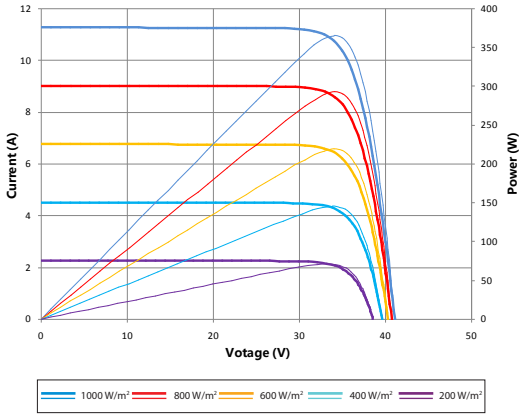
NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.



Temperature Characteristics

Nominal Module Operating Temperature (**NMOT**)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.37%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C

Current-Voltage & Power-Voltage Curve (370S)



Mechanical Characteristics

Solar Cell	Monocrystalline silicon 166 mm
No. of Cells	120 (6 × 20)
Dimensions	1776 × 1052 × 35 mm (70.0 × 41.4 × 1.4 inches)
Weight	20.0 kgs (44.1 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 EVO2, Cable 01S

Dealer information

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	1806 × 1130 × 1216 mm	
Packaging box weight	670 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 specification.