HyPro STP320S - 60/Pfh
STP315S - 60/Pfh
STP310S - 60/Pfh

SUNTECH

320Watt
MONOCRYSTALLINE BIFACIAL HALF CELL SOLAR MODULE

Features

Higher power output
The power generation can increase up to 25%

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

Distributed junction box
Special distributed junction box design avoids shading on the back side

Positive tolerance
Positive tolerance of up to 5W delivers higher output reliablity

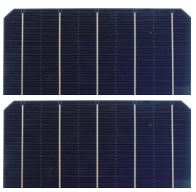
Excellent weak light performance
More power output in weak light condition, such as haze,cloudy ,and morning

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

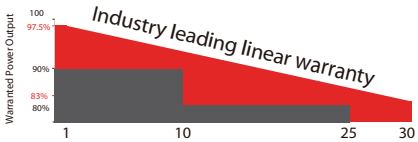
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Regular independently checked production process 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



High efficiency Bifacial PERC half cell

By using bifacial PERC half cell and double glass technology, the frontside power can reach to 320W, and the backside power generation can increase up to 25%.

Industry-leading Warranty based on nominal power



- 97.5% in the first year, thereafter, for years two (2) through thirty (30), 0.5% maximum decrease from MODULE's nominal power output per year, ending with the 83% in the 30th year after the defined WARRANTY STARTING DATE.***
- 12-year product warranty
- 30-year linear performance warranty

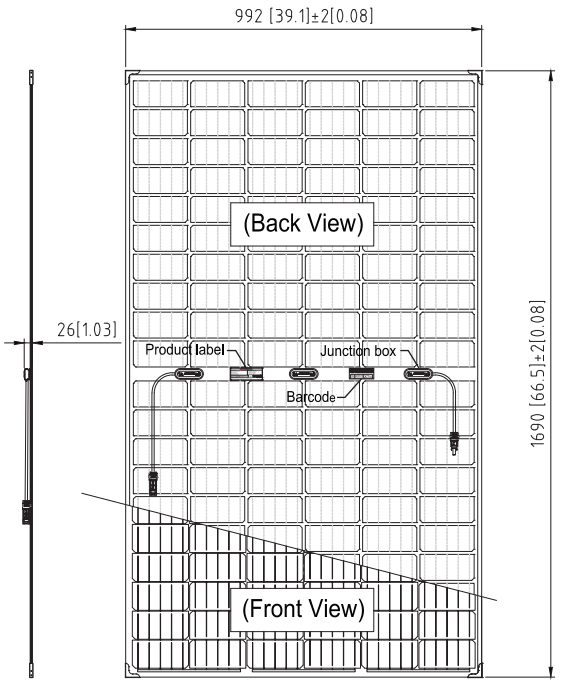
IP68 Rated Junction Box

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.

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

HyPro STP320S - 60/Pfh
STP315S - 60/Pfh
STP310S - 60/Pfh

SUNTECH



Electrical Characteristics

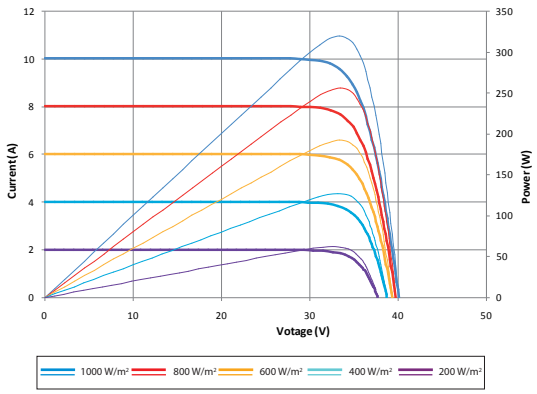
STC	STP320S-60/Pfh	STP315S-60/Pfh	STP310S-60/Pfh
Maximum Power at STC (Pmax)	320 W	315 W	310 W
Optimum Operating Voltage (Vmp)	33.3 V	33.1 V	32.9 V
Optimum Operating Current (Imp)	9.61 A	9.52 A	9.43 A
Open Circuit Voltage (Voc)	40.1 V	39.9 V	39.7 V
Short Circuit Current (Isc)	10.04 A	9.96 A	9.88 A
Module Efficiency	19.1%	18.8%	18.5%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1500 V DC (IEC)		
Maximum Series Fuse Rating	20 A		
Power Tolerance	0/+5W		

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

NMOT	STP320S-60/Pfh	STP315S-60/Pfh	STP310S-60/Pfh
Maximum Power at NMOT (Pmax)	239.6 W	236.0 W	232.3 W
Optimum Operating Voltage (Vmp)	31.1 V	30.8 V	30.6 V
Optimum Operating Current (Imp)	7.72 A	7.65 A	7.58 A
Open Circuit Voltage (Voc)	37.5 V	37.3 V	37.1 V
Short Circuit Current (Isc)	8.11 A	8.05 A	7.98 A

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

Current-Voltage & Power-Voltage Curve (320S)



Temperature Characteristics

Nominal Module Operating Temperature (**NMOT**)	42±2°C
Temperature Coefficient of Pmax	-0.37 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.060 %/°C

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 6 inches
No. of Cells	120 (6 × 20)
Dimensions	1690 × 992 × 6mm (66.54 × 39.1 × 0.24 inches)
Weight	24.1 kgs (53.13 lbs.)
Front/Back Glass	2.5 mm (0.098 inches) tempered glass
Junction Box	IP68 rated
Output Cables	4.0 mm² (0.006 inches²), unsymmetrical lengths (-) 350mm (13.8 inches) , (+) 160 mm (6.3 inches)
Connectors	MC4 EVO2, Cable01S

Dealer information

Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	33	33
Pallets per container	5	24
Pieces per container	165	792

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.