HyPro STP305S - 20/Wfb STP300S - 20/Wfb STP295S - 20/Wfb



305 Watt

MONOCRYSTALLINE SOLAR MODULE



Features



High module conversion efficiency

Module efficiency up to 18.6% achieved through advanced cell technology and manufacturing capabilities



lower hot spots

Reduce the hot spots and minimize panel degradation



Positive tolerance

Positive tolerance of up to 5W delivers higher outputs reliablity



Suntech current sorting process

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



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

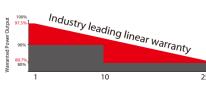
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Regular independently checked production process from international accredited institute/company
- · Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free modules



Advanced HyPro Technology

The HyPro cell uses back surface passivation and local BSF technology, which can improve cell efficiency by a large margin.

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.****
- ²⁵• 12-year product warranty
- · 25-year linear performance warranty



IP68 Rated Junction Box

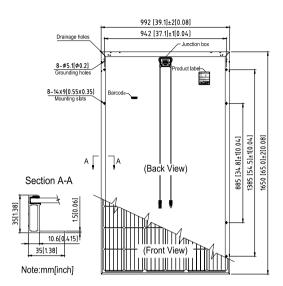
The Suntech IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables. High reliable performance, low resistance connectors ensure maximum output for the highest energy production.

^{*} 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.

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Electrical Characteristics

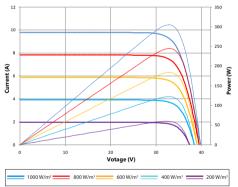
STC	STP305S-20/ Wfb	STP300S-20/ Wfb	STP295S-20/ Wfb
Maximum Power at STC (Pmax)	305 W	300 W	295 W
Optimum Operating Voltage (Vmp)	32.8 V	32.5 V	32.2 V
Optimum Operating Current (Imp)	9.30 A	9.23 A	9.16 A
Open Circuit Voltage (Voc)	39.8 V	39.6 V	39.3 V
Short Circuit Current (Isc)	9.80 A	9.72 A	9.69 A
Module Efficiency	18.6%	18.3%	18.0%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1000 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; Tolerances of Pmax, Voc and Isc are all within $\pm 5\%$

NMOT	STP305S-20/ Wfb	STP300S-20/ Wfb	STP295S-20/ Wfb
Maximum Power at NMOT (Pmax)	228.3 W	225.0 W	221.3 W
Optimum Operating Voltage (Vmp)	30.5 V	30.3 V	30.0 V
Optimum Operating Current (Imp)	7.49 A	7.43 A	7.39 A
Open Circuit Voltage (Voc)	37.1 V	37.0 V	36.7 V
Short Circuit Current (Isc)	7.92 A	7.85 A	7.83 A

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

Current-Voltage & Power-Voltage Curve (305S)



Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.39 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.060 %/°C

Dealer information



Mechanical Characteristics

Solar Cell	Monocrystalline silicon 6 inches
No. of Cells	60 (6 × 10)
Dimensions	1650 × 992 × 35mm (65.0 × 39.1 × 1.4 inches)
Weight	18.3 kgs (40.3 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 (0.006 inches ²), symmetrical lengths (-) 1000mm (39.4 inches) and (+) 1000 mm (39.4 inches)
Connectors	Genuine MC4

Packing Configuration

Container	20' GP	40′ HC
Pieces per pallet	30	30
Pallets per container	6	28
Pieces per container	180	840

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.