HyPro STP330S - A20/Wfh
STP325S - A20/Wfh
STP320S - A20/Wfh

Preliminary Draft

SUNTECH

330 Watt
MONO HALF CELL SOLAR MODULE



Features

High power output
Compared to normal module, the power output can increase 5W-10W

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 hot spots
Reduce the hot spots and minimize panel degradation

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

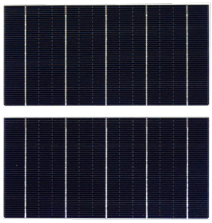
Withstanding harsh environment
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

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

Trust Suntech to Deliver Reliable Performance Over Time

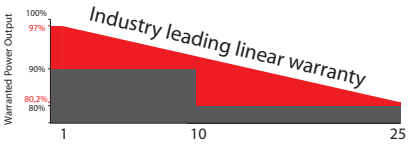
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Regular independently checked production process 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 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% 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 80.2% 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.

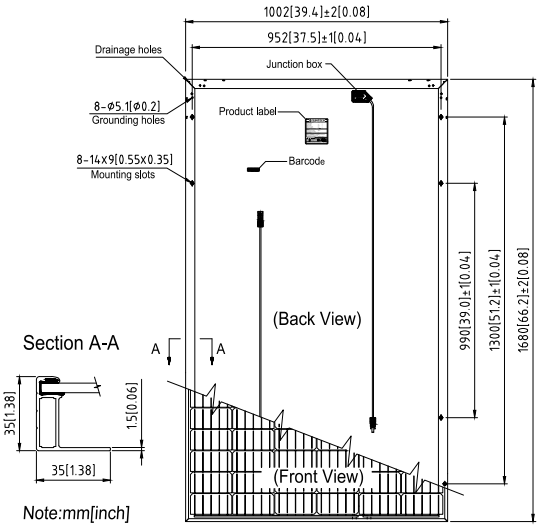
* Please refer to Suntech Standard Module Installation Manual for details. **WEEE only for EU market.
*** Please refer to Suntech Product Near-coast Installation Manual for details. **** Please refer to Suntech Product Warranty for details.

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Electrical Characteristics

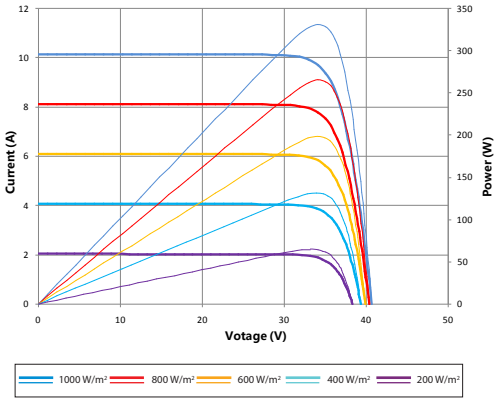
STC	STP330S-A20/Wfh	STP325S-A20/Wfh	STP320S-A20/Wfh
Maximum Power at STC (Pmax)	330 W	325 W	320 W
Optimum Operating Voltage (Vmp)	34.7 V	34.5 V	34.3 V
Optimum Operating Current (Imp)	9.52 A	9.43 A	9.33 A
Open Circuit Voltage (Voc)	40.7 V	40.5 V	40.3 V
Short Circuit Current (Isc)	10.13 A	10.04 A	9.93 A
Module Efficiency	19.6%	19.3%	19.0%
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;
Tolerances of Pmax, Voc and Isc are all within +/- 5%.

NMOT	STP330S-A20/Wfh	STP325S-A20/Wfh	STP320S-A20/Wfh
Maximum Power at NMOT (Pmax)	248.6 W	244.9 W	240.9 W
Optimum Operating Voltage (Vmp)	31.9 V	31.7 V	31.5 V
Optimum Operating Current (Imp)	7.79 A	7.72 A	7.64 A
Open Circuit Voltage (Voc)	38.1 V	37.9 V	37.8 V
Short Circuit Current (Isc)	8.18 A	8.11 A	8.02 A

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

Current-Voltage & Power-Voltage Curve (330S)



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 6.25 inches
No. of Cells	120 (6 × 20)
Dimensions	1680 × 1002 × 35mm (66.1 × 39.4 × 1.4 inches)
Weight	18.8 kgs (41.4 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 (0.006 inches²), symmetrical lengths (-) 1200mm (47.24 inches) and (+) 1200 mm (47.24 inches)
Connectors	MC4 EVO2, Cable 01S

Dealer information

Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	30	30
Pallets per container	6	26
Pieces per container	180	780

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.

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