

HyPro STP295S - 20/Wem STP290S - 20/Wem STP285S - 20/Wem



295 Watt MONOCRYSTALLINE SOLAR MODULE



Features



High module conversion efficiency

Module efficiency up to 18.1% achieved through advanced cell technology and manufacturing capabilities



High PID resistant

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



Positive tolerance

Positive tolerance of up to 5W delivers higher output reliability



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

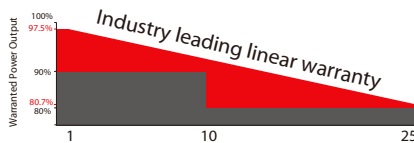
Certifications and standards:
IEC 61215, IEC 61730, conformity to CE



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
- 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

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

Advanced HyPro Technology



The HyPro cell uses back surface passivation and local BSF technology. The average cell efficiency is up to 20.5%.

IP67 Rated Junction Box

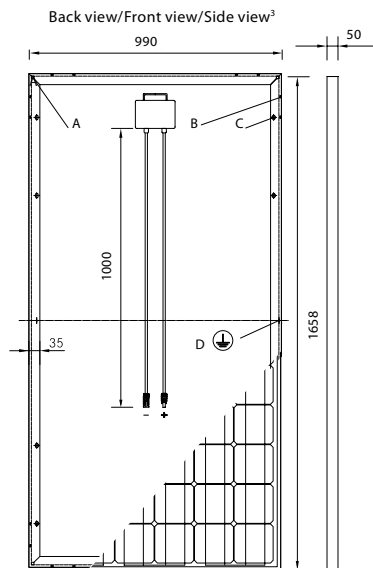


IP67 rated junction box supports installations in multiple orientations. High reliable performance, low resistance connectors ensure maximum output for the highest energy production.

* Please refer to Suntech Standard Module Installation Manual for details. **PV Cycle 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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- A: 4 x drainage 10*10 mm
- B: 8 x ventilation aperture 3*7 mm
- C: 8 x mounting hole^d d = 7 mm

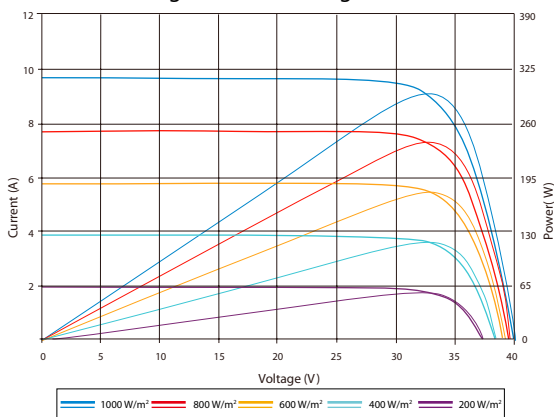
Electrical Characteristics

STC	STP295S-20/Wem	STP290S-20/Wem	STP285S-20/Wem
Rated Power P _{mp} (W _p)	295 W	290 W	285 W
Rated Voltage V _{mp} (V)	32.24 V	32.12 V	32.05 V
Rated Current I _{mp} (A)	9.16 A	9.04 A	8.92 A
Open Circuit Voltage V _{oc} (V)	38.78 V	38.6V	38.42 V
Short Circuit Current I _{sc} (A)	9.49 A	9.39 A	9.3 A
Efficiency at STC	17.99%	17.69%	17.42%
NOTC(°C)	-40 °C to +85 °C		
Maximum System Voltage(V)	1000 V		
Maximum Return Current(I)	15 A		
Snow-load Zone ²	approval up to SLZ 3(according to DIN 1055)		
Maximum Pressure Load(static)	5400 Pa		
Power Tolerance	0/+5 W		
Temperature coefficient (V) (I) (P)	-0.34%/°C 0.05 %/°C -0.45 %/°C		

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Current-Voltage & Power-Voltage Curve (295S-20)

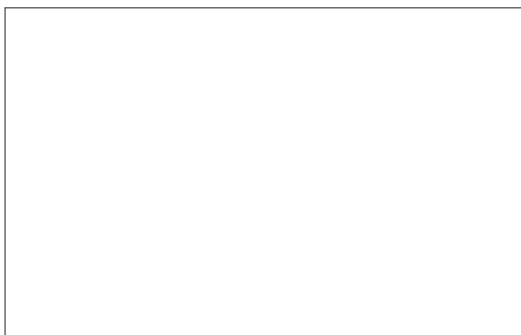


Excellent performance under weak light conditions: at an irradiation intensity of 200 W/m² (AM 1.5, 25 °C), 96.5% efficiency (200 W/m²) is achieved

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 156× 156mm
No. of Cells	6 × 10, three strings in a row
Dimensions	1658mm × 990mm × 50mm
Weight	19kgs
Front-side Glass	3.2 mm hardened solar glass with low iron content
Frame	Black, stable, anodized aluminium frame in a hollow-section design
Cable	4 mm ² solar cable, cable length 1.0 m
Connector	MC4 or equivalent
Junction Box	IP67 related (3 bypass diodes)

Dealer information



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.