

STP275S - 18/Ufl

275 Watt

LIGHT-WEIGHT MONOCRYSTALLINE SOLAR MODULE



Features



Light-weight

Only 9.2 Kgs with 0.85 mm front glass, which is suitable for those load-bearing roof top



Positive tolerance

Positive tolerance of up to 5W delivers higher output reliablity



High module conversion efficiency

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



High PID resistant

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



Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (2400 Pascal) *



Suntech current sorting process

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















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

Trust Suntech to Deliver Reliable Performance Over

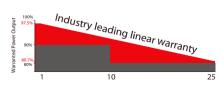
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Regular independently checked production process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



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.****
- 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.

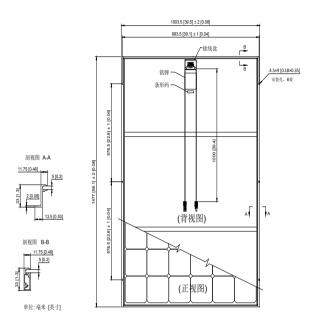
^{*} Please refer to Suntech Standard Module Installation Manual for details. **WEEE only for EU market.

^{***} Please refer to Suntech Product Near-coast Installation Manual for details. **** Please refer to Suntech Product Warranty for details.









Electrical Characteristics

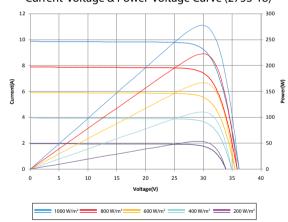
STC	STP275S-18/UfI
Maximum Power at STC (Pmax)	275 W
Optimum Operating Voltage (Vmp)	28.8 V
Optimum Operating Current (Imp)	9.55 A
Open Circuit Voltage (Voc)	36.2 V
Short Circuit Current (Isc)	9.86 A
Module Efficiency	18.6%
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1000 V DC (IEC)
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 W

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

NOCT	STP275S-18/Ufl
Maximum Power at NOCT (Pmax)	204.8 W
Optimum Operating Voltage (Vmp)	27.3 V
Optimum Operating Current (Imp)	7.50 A
Open Circuit Voltage (Voc)	33.4 V
Short Circuit Current (Isc)	7.98A

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% and the same of the same of

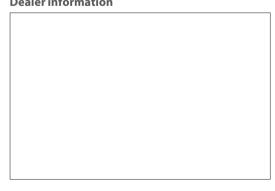
Current-Voltage & Power-Voltage Curve (275S-18)



Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2℃
Temperature Coefficient of Pmax	-0.40 %/°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	54 (6 × 9)
Dimensions	1477 × 1003.5 × 33mm
Weight	9.2kgs
Front Glass	0.85 mm tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	TUV (2Pfg1169:2007)
	4.0 mm ² (0.006 inches ²), symmetrical lengths (-) 1000mm (39.4 inches) and (+) 1000 mm (39.4 inches)
Connectors	H4

Packing Configuration

Container	20' GP	40′ HC
Pieces per pallet	22	22
Pallets per container	6	28
Pieces per container	132	616

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.