STP275 - 20/Wfk+
STP270 - 20/Wfk+
STP265 - 20/Wfk+

SUNTECH

275 Watt
DOUBLE GLASS SOLAR MODULE

Features

High module conversion efficiency
Module efficiency up to 16.6% 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
Guaranteed positive tolerance of 5W delivers higher output

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 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

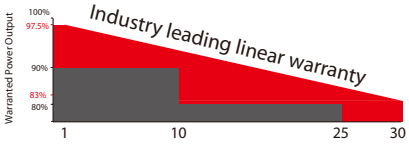
Trust Suntech to Deliver Reliable Performance Over Time

- 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 (ammonia corrosion and sand blowing testing: IEC 62716, DIN EN 60068-2-68)***
- Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free modules

Special distributed junction box design, reduce line losses.

Left Middle Right

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

IP68

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 Double Glass 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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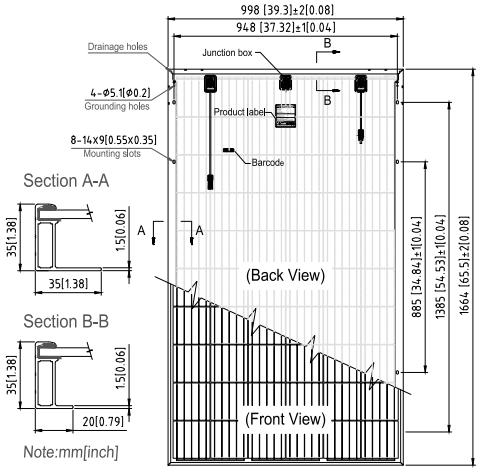


Electrical Characteristics

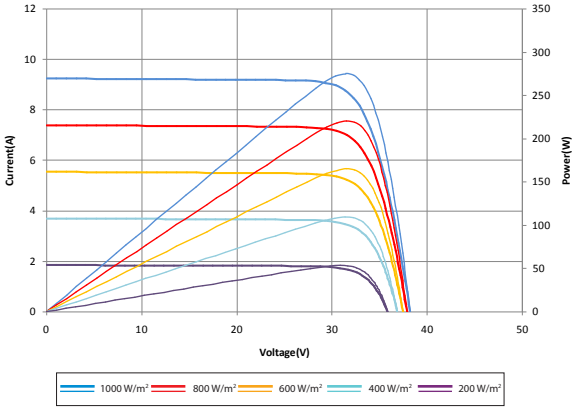
STC	STP275-20/ Wfk+	STP270-20/ Wfk+	STP265-20/ Wfk+
Maximum Power at STC (Pmax)	275 W	270 W	265 W
Optimum Operating Voltage (Vmp)	31.5 V	31.4 V	31.3 V
Optimum Operating Current (Imp)	8.74 A	8.60 A	8.48 A
Open Circuit Voltage (Voc)	38.2 V	38.1 V	38.0 V
Short Circuit Current (Isc)	9.25 A	9.17 A	9.05 A
Module Efficiency	16.6%	16.3%	16.0%
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;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT	STP275-20/ Wfk+	STP270-20/ Wfk+	STP265-20/ Wfk+
Maximum Power at NOCT (Pmax)	202.8 W	198.7 W	195.3 W
Optimum Operating Voltage (Vmp)	28.7 V	28.5 V	28.4V
Optimum Operating Current (Imp)	7.05 A	6.96 A	6.87 A
Open Circuit Voltage (Voc)	35.1 V	35.0 V	34.9 V
Short Circuit Current (Isc)	7.50A	7.43 A	7.34 A

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 (275)



Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.41 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.067 %/°C

Mechanical Characteristics

Solar Cell	Polycrystalline silicon 6 inches
No. of Cells	60 (6 × 10)
Dimensions	1664 × 998 × 35mm
Weight	21.7 kgs (47.8 lbs.)
Front/Back Glass	2.0 mm (0.079 inches) heat strengthened glass
Junction Box	IP68 rated
Output Cables	4.0 mm² (0.006 inches²), unsymmetrical lengths (-) 350mm (13.78 inches) , (+) 160 mm (6.3 inches)
Connectors	MC4 Compatible

Dealer information

Packing Configuration

Container	40' HC
Pieces per pallet	30
Pallets per container	26
Pieces per container	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.