

**STP275 - 20/Wfi**  
**STP270 - 20/Wfi**  
**STP265 - 20/Wfi**

## 275 Watt DOUBLE GLASS SOLAR MODULE



### Features



#### High module conversion efficiency

Module efficiency up to 16.7% achieved through advanced cell technology and manufacturing capabilities



#### PID Free

Potential induced degradation (PID) free guaranteed



#### 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 (2400 Pascal) and snow loads (2400 Pascal) \*



#### Withstanding harsh environment

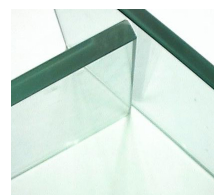
Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

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



### Trust Suntech to Deliver Reliable Performance Over Time

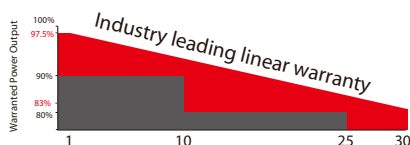
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Regular independently checked production process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



### Frameless design

- Glass-Glass structure
- Economize grounding hardware
- Heat strengthened glass ensures high mechanical capability

### 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



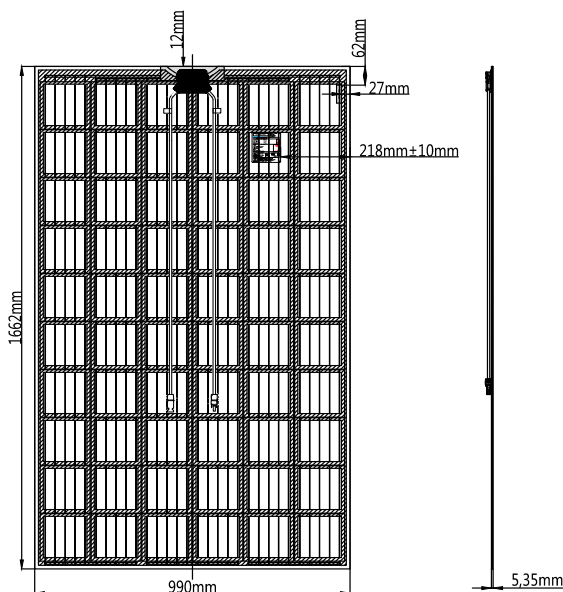
### IP67 Rated Junction Box

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 Double Glass Module Installation Manual for details.

\*\* 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**

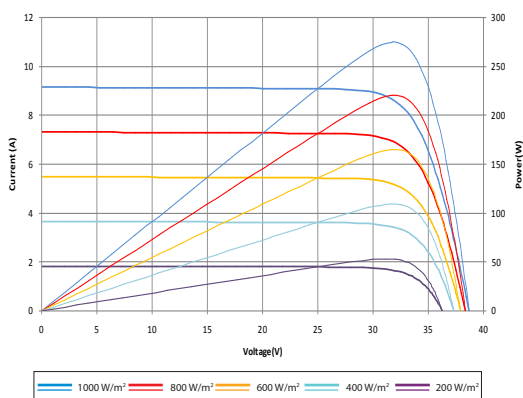
STC	STP275-20/Wfi	STP270-20/Wfi	STP265-20/Wfi
Maximum Power at STC (Pmax)	275 W	270 W	265 W
Optimum Operating Voltage (Vmp)	31.94 V	31.51 V	31.24 V
Optimum Operating Current (Imp)	8.62 A	8.57 A	8.50 A
Open Circuit Voltage (Voc)	38.72 V	38.51 V	38.09 V
Short Circuit Current (Isc)	9.16 A	9.04 A	8.95 A
Module Efficiency	16.7%	16.4%	16.1%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1000 V DC (IEC)		
Maximum Series Fuse Rating	15 A		
Power Tolerance	0/+5 W		

STC: Irradiance 1000 W/m<sup>2</sup>, 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/Wfi	STP270-20/Wfi	STP265-20/Wfi
Maximum Power at NOCT (Pmax)	203.6 W	199.7 W	196.1 W
Optimum Operating Voltage (Vmp)	29.3 V	29.2 V	28.9V
Optimum Operating Current (Imp)	6.94 A	6.84 A	6.78 A
Open Circuit Voltage (Voc)	35.9 V	35.7 V	35.3 V
Short Circuit Current (Isc)	7.39A	7.29 A	7.22 A

NOCT: Irradiance 800 W/m<sup>2</sup>, 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 (275-20)**



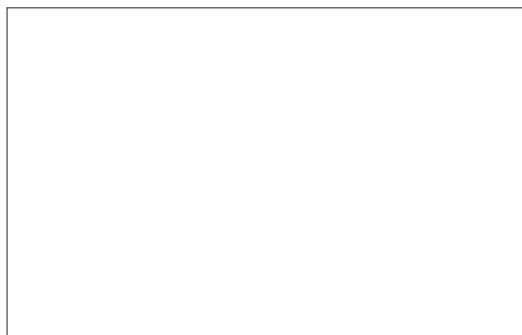
**Temperature Characteristics**

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.39 %/°C
Temperature Coefficient of Voc	-0.30 %/°C
Temperature Coefficient of Isc	0.041 %/°C

**Mechanical Characteristics**

Solar Cell	Polycrystalline silicon 6 inches
No. of Cells	60 (6 × 10)
Dimensions	1662 × 990 × 5mm (65.4× 39.0 × 0.2 inches) without J-box
Weight	19.6 kgs (43.2 lbs.)
Front/Back Glass	2 mm (0.079 inches) heat strengthened glass
Junction Box	IP67 rated (3 bypass diodes)
Output Cables	4 mm <sup>2</sup> (0.006inches <sup>2</sup> ), symmetrical lengths (-) 1000mm (39.4 inches) and (+) 1000 mm (39.4 inches)
Connectors	LSC-R1 (MC4 compatible)

**Dealer information**



**Packing Configuration**

Container	40' HC
Pieces per pallet	38
Pallets per container	26
Pieces per container	988

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.