

**STP325S - 20/Wfg**

**STP320S - 20/Wfg**

**STP315S - 20/Wfg**



**325Watt**

## MONOCRYSTALLINE DOUBLE SIDED SOLAR MODULE



### Features



#### Higher module conversion efficiency

The power generation can increase more than 30%



#### PID Free

Potential induced degradation (PID) free guaranteed



#### Low risk of micro-cracks

No internal stress from the symmetrical N-Bifacial cell scheme



#### Better reliability

Successfully passed various strict tests (Triple IEC test, Salt Mist Corrosion test, PID test and so on)



#### ZERO light induced degradation (LID)

NO LID, more power generation



#### Excellent weak light performance

More power output in weak light condition, such as haze, cloudy, and morning

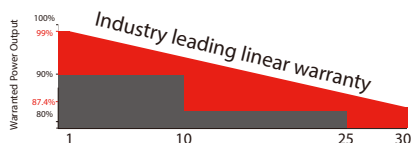
Certifications and standards:  
IEC 61215, IEC 61730, conformity to CE



### 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

### Industry-leading Warranty based on nominal power



- 99% in the first year, thereafter, for years two (2) through thirty (30), 0.4% maximum decrease from MODULE's nominal power output per year, ending with the 87.4% in the 30th year after the defined WARRANTY STARTING DATE.
- 12-year product warranty
- 30-year linear performance warranty

### High efficiency N-type double-sided mono cell



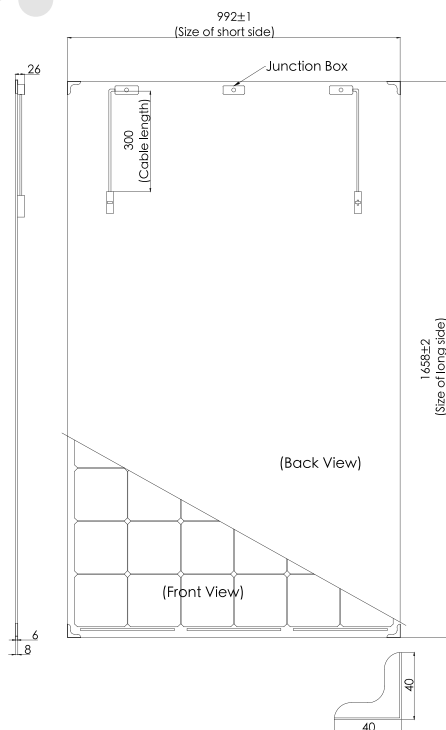
The module uses high efficiency N-type double-sided mono cell, integrated with white coating on the floor, the maximum total power can reach to 390W.

### 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

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## Electrical Characteristics

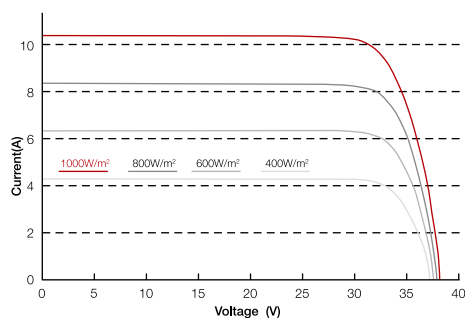
STC	STP325S-20/Wfg	STP320S-20/Wfg	STP315S-20/Wfg
Maximum Power at STC (Pmax)	325 W	320 W	315 W
Optimum Operating Voltage (Vmp)	32.1 V	31.9 V	31.8 V
Optimum Operating Current (Imp)	10.14 A	10.04 A	9.92 A
Open Circuit Voltage (Voc)	39.0 V	38.8 V	38.7 V
Short Circuit Current (Isc)	10.72 A	10.63 A	10.54 A
Module Efficiency	19.8%	19.5%	19.2%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1500 V DC (IEC) / 1000 V DC (UL)		
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%

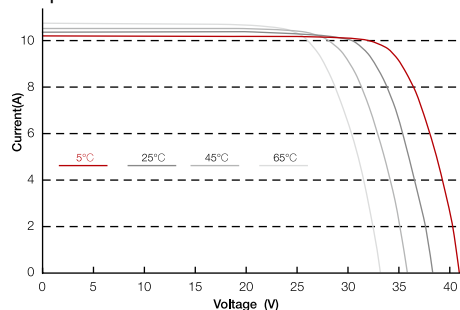
NOCT	STP325S-20/Wfg	STP320S-20/Wfg	STP315S-20/Wfg
Maximum Power at NOCT (Pmax)	239 W	235 W	232 W
Optimum Operating Voltage (Vmp)	29.4 V	29.3 V	29.2 V
Optimum Operating Current (Imp)	8.11 A	8.03 A	7.94 A
Open Circuit Voltage (Voc)	36.1 V	35.9 V	35.8 V
Short Circuit Current (Isc)	8.64 A	8.57 A	8.50 A

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 Curve under different irradiance



Current-Voltage Curve under different working temperatures



## Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.38 %/°C
Temperature Coefficient of Voc	-0.30 %/°C
Temperature Coefficient of Isc	+0.048 %/°C

## Mechanical Characteristics

Solar Cell	Monocrystalline silicon 6 inches
No. of Cells	60 (6 × 10)
Dimensions	1658 × 992 × 6mm (65.3 × 39.1 × 0.2 inches)
Weight	22.5 kgs (49.6 lbs.)
Front Glass	2.5 mm (0.1 inches) tempered glass
Back Glass	2.5 mm (0.1 inches) tempered glass
Junction Box	IP67 rated (3 bypass diodes)
Output Cables	4.0 mm <sup>2</sup> (0.006 inches <sup>2</sup> ), 300mm (11.8 inches) photovoltaic special cable
Connectors	MC4 compatible

## Packing Configuration

Container	20' GP	40' GP	40' HC
Pieces per pallet	33	33	33
Pallets per container	6	13	26
Pieces per container	198	429	858

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.