

HyPro

STP375S - 24/Vfw
STP370S - 24/Vfw
STP365S - 24/Vfw



375 Watt MONOCRYSTALLINE SOLAR MODULE



Features



High module conversion efficiency

19.3%

Module efficiency up to 19.3% 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

0/+5W

Positive tolerance of up to 5W delivers higher output reliability



Suntech current sorting process

2%

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



Extended wind and snow load tests

3800Pa
5400Pa

Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) *



High system voltage Compatible

1500 V

Maximum 1500 V DC system voltage reduces total system cost

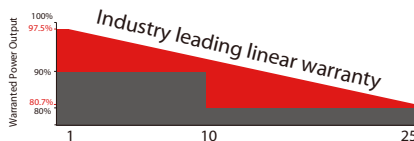
Certifications and standards:
IEC 61215, IEC 61730, conformity to CE



Trust Suntech to Deliver Reliable Performance Over Time

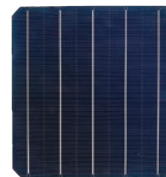
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Regular independently checked production process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



- 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 PERC Technology



The PERC cell uses back surface passivation and local BSF technology, which can improve cell efficiency by a large margin.

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.

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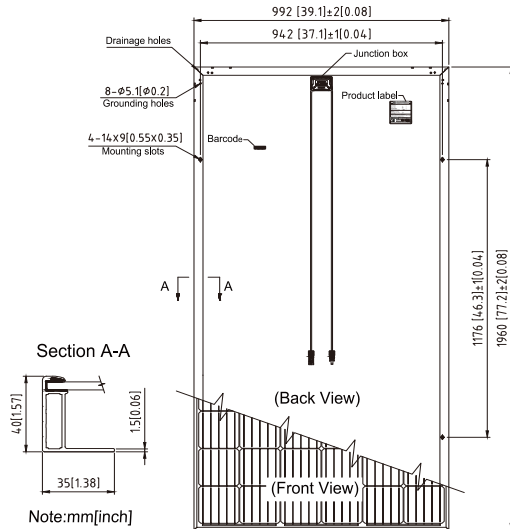
Electrical Characteristics

STC	STP375S-24/ Vfw	STP370S-24/ Vfw	STP365S-24/ Vfw
Maximum Power at STC (Pmax)	375W	370W	365W
Optimum Operating Voltage (Vmp)	39.0V	38.8V	38.6V
Optimum Operating Current (Imp)	9.62A	9.54A	9.46A
Open Circuit Voltage (Voc)	47.8V	47.6V	47.4V
Short Circuit Current (Isc)	10.14A	10.06A	9.97A
Module Efficiency	19.3%	19.0%	18.8%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1500 V DC (IEC)		
Maximum Series Fuse Rating	20 A		
Power Tolerance	0/+5W		

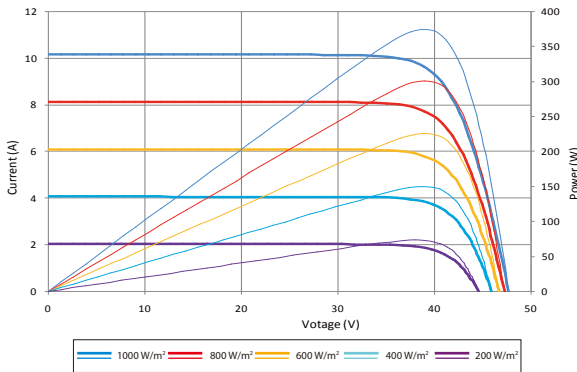
STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT	STP375S-24/ Vfw	STP370S-24/ Vfw	STP365S-24/ Vfw
Maximum Power at NOCT (Pmax)	277.1W	272.8W	269.1W
Optimum Operating Voltage (Vmp)	35.9V	35.7V	35.6V
Optimum Operating Current (Imp)	7.73A	7.64A	7.57A
Open Circuit Voltage (Voc)	44.1V	43.8V	43.6V
Short Circuit Current (Isc)	8.21A	8.14A	8.07A

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 (375S)



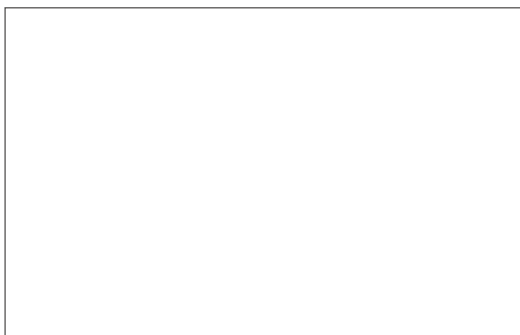
Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.40 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.060 %/°C

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 6 inches
No. of Cells	72 (6 × 12)
Dimensions	1960 × 992 × 40mm (77.2 × 39.1 × 1.6inches)
Weight	22.1 kgs (48.7 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ² (0.006 inches ²), symmetrical lengths (-) 1100mm (43.3inches) and (+) 1100 mm (43.3 inches)
Connectors	MC4 compatible

Dealer information



Packing Configuration

Container	20' GP	40' GP	40' HC
Pieces per pallet	26	26	26
Pallets per container	5	12	24
Pieces per container	130	312	624

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.