

STP345 - 24H/Vfw
STP340 - 24H/Vfw
STP335 - 24H/Vfw



345 Watt

POLYCRYSTALLINE SOLAR MODULE



Features



High module conversion efficiency

Module efficiency up to 17.7% achieved through advanced cell technology and manufacturing capabilities



Lower hot spots

Reduce the hot spots and minimize panel degradation



Positive tolerance

Positive tolerance of up to 5W delivers higher output reliability



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



High system voltage compatible

Maximum 1500 V DC system voltage reduces total system cost

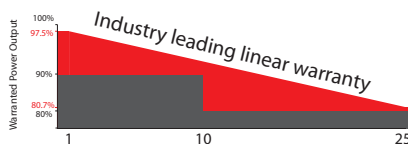
Certifications and standards:
IEC 61215, IEC 61730, conformity to CE



Trust Suntech to Deliver Reliable Performance Over Time

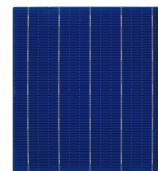
- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Regular independently checked production process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

Special 5 busbar design



The unique cell design leads reduction in electrodes resistance, shading area and raise in conversion efficiency. Residual stress distribution can be more even, reducing the micro-cracks risks.

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.

Made in China

STP345 - 24H/Vfw

STP340 - 24H/Vfw

STP335 - 24H/Vfw



Electrical Characteristics

STC	STP345-24H/Vfw	STP340-24H/Vfw	STP335-24H/Vfw
Maximum Power at STC (Pmax)	345 W	340 W	335 W
Optimum Operating Voltage (Vmp)	38.2 V	38.1 V	38.0 V
Optimum Operating Current (Imp)	9.04 A	8.93 A	8.82 A
Open Circuit Voltage (Voc)	46.7 V	46.5 V	46.1 V
Short Circuit Current (Isc)	9.50 A	9.40 A	9.30 A
Module Efficiency	17.7%	17.5%	17.2%
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;
Tolerances of Pmax, Voc and Isc are all within ±5%

NMOT	STP345-24H/Vfw	STP340-24H/Vfw	STP335-24H/Vfw
Maximum Power at NMOT (Pmax)	259.4 W	255.5 W	251.6 W
Optimum Operating Voltage (Vmp)	35.7 V	35.5 V	35.3 V
Optimum Operating Current (Imp)	7.27 A	7.19 A	7.12 A
Open Circuit Voltage (Voc)	43.7 V	43.5 V	43.1 V
Short Circuit Current (Isc)	7.69 A	7.61 A	7.53 A

NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

Temperature Characteristics

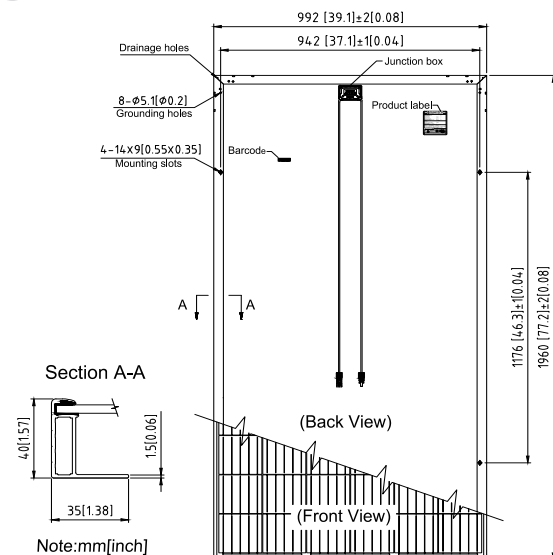
Nominal Module Operating Temperature (NMOT)	42±2°C
Temperature Coefficient of Pmax	-0.38 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.067 %/°C

Mechanical Characteristics

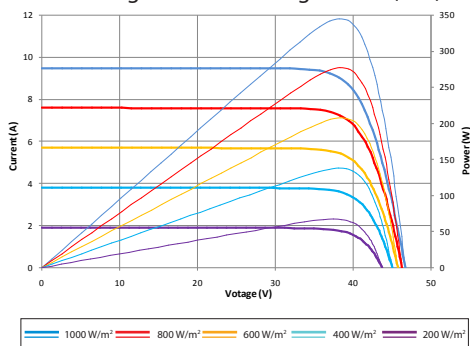
Solar Cell	Polycrystalline silicon 6 inches
No. of Cells	72 (6 × 12)
Dimensions	1960 × 992 × 40mm (77.2 × 39.1 × 1.6 inches)
Weight	22.1 kgs (48.7 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ² (0.006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

Packing Configuration

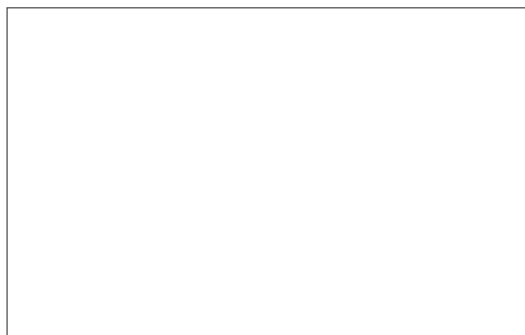
Container	20' GP	40' HC
Pieces per pallet	26	26
Pallets per container	5	24
Pieces per container	130	624



Current-Voltage & Power-Voltage Curve (345)



Dealer information



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.