

300 Watt POLYCRYSTALLINE SOLAR MODULE



Features



High module conversion efficiency

Module efficiency up to 15.5% achieved through advanced cell technology and manufacturing capabilities



Self-cleaning & anti-reflective

Higher module efficiency from anti-reflective, hydrophobic layer with higher light absorption and minimal surface dust



Positive tolerance

Guaranteed positive tolerance of up to 5% delivers higher outputs



Excellent weak light performance

Excellent performance under low light conditions



Extended wind and snow load tests

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



Suntech current sorting process

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

Certifications and standards:
UL1703, IEC 61215, IEC 61730, conformity to CE



Trust Suntech to Deliver Reliable Performance Over Time

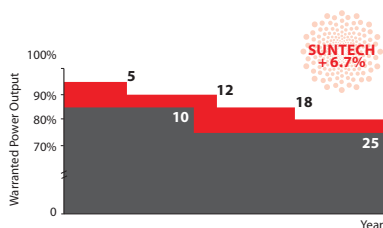
- World's no.1 manufacturer of crystalline silicon photovoltaic modules
- Unrivalled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008 and ISO 14001: 2004
- Tested for harsh environments (salt mist and ammonia corrosion testing: IEC 61701, DIN 50916:1985 T2)**



New, Improved Frame Design

Suntech's new rigid and reliable hollow chamber frame provides additional grounding options for increased design flexibility and easier installation. Anti-counterfeit mark assures product authenticity.

Industry-leading Warranty Based on Nominal Power



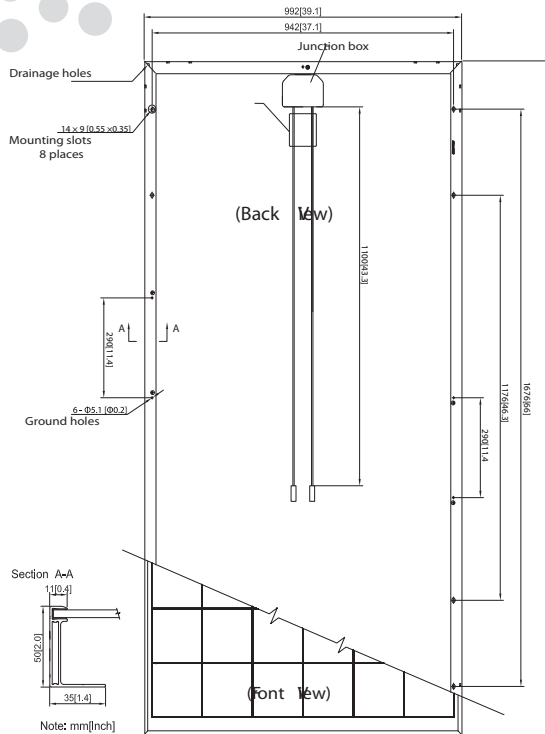
- Based on nominal power (P_{nom})
- 25-year transferrable power output warranty: 5 years/95%, 12 years/90%, 18 years/85%, 25 years/80% ***
- Warrants 6.7% more than the market standard over 25 years
- 10-year material and workmanship warranty



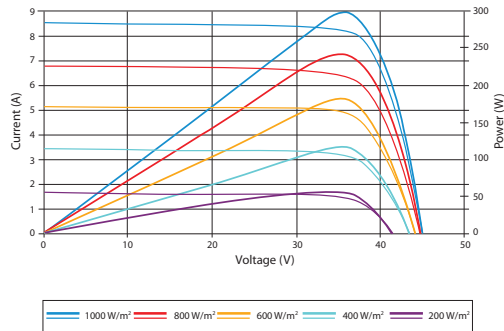
Durable IP67 Rated Junction Box

Supports installations in multiple orientations. High performance, low resistance connectors ensure maximum output for the highest energy production.

* Please refer to Suntech Standard Module Installation Manual for details. ** Please refer to Suntech Product Near-coast Installation Manual for details.
*** Please refer to Suntech Product Warranty for details.

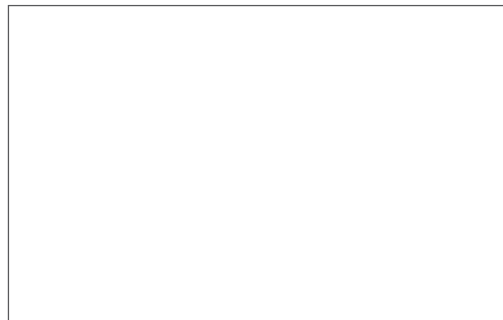


Current-Voltage & Power-Voltage Curve (300-24)



Excellent performance under weak light conditions: at an irradiance intensity of 200 W/m² (AM 1.5, 25 °C), 95.5% or higher of the STC efficiency (1000 W/m²) is achieved

Dealer information



Specifications are subject to change without further notification

Electrical Characteristics

STC	STP300-24/Vd
Optimum Operating Voltage (Vmp)	36.1 V
Optimum Operating Current (Imp)	8.32 A
Open Circuit Voltage (Voc)	45.2 V
Short Circuit Current (Isc)	8.65 A
Maximum Power at STC (Pmax)	300 W
Module Efficiency	15.5%
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1000 V DC (IEC) / 600 V DC (UL)
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 %

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
Sun simulation measure tolerance(class AAA Flasher): +/- 3%

NOCT	STP300-24/Vd
Maximum Power at NOCT (Pmax)	218 W
Optimum Operating Voltage (Vmp)	32.5 V
Optimum Operating Current (Imp)	6.71 A
Open Circuit Voltage (Voc)	41.4 V
Short Circuit Current (Isc)	6.97 A

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;
Sun simulation measure tolerance(class AAA Flasher): +/- 3%

Temperature Characteristics

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.44 %/°C
Temperature Coefficient of Voc	-0.33 %/°C
Temperature Coefficient of Isc	0.055 %/°C

Mechanical Characteristics

Solar Cell	Polycrystalline silicon 156 × 156 mm (6 inches)
No. of Cells	72 (6 × 12)
Dimensions	1956 × 992 × 50mm (77.0 × 39.1 × 2.0 inches)
Weight	27.0 kgs (59.5 lbs.)
Front Glass	4.0 mm (0.16 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated (3 bypass diodes)
Output Cables	TUV (2Pfg1169:2007), UL 4703, UL44 4.0 mm² (0.006 inches²), symmetrical lengths (-) 1100mm (43.3 inches) and (+) 1100 mm (43.3 inches)
Connectors	H4 connectors(MC4 connectable)

Packing Configuration

Container	20' GP	40' GP	40' HC
Pieces per pallet	21	21	21
Pallets per container	5	12	24
Pieces per container	105	252	504