

## 295 Watt POLYCRYSTALLINE SOLAR MODULE



### Features



#### High module conversion efficiency

Module efficiency up to 15.2% 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 5% delivers higher outputs reliably



#### 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

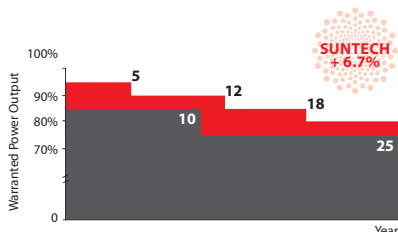
- World's No.1 manufacturer of crystalline silicon photovoltaic modules
- Unrivaled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO17025: 2005
- Tested for harsh environments (salt mist and ammonia corrosion testing: IEC 61701, DIN 50916:1985 T2)\*\*



### Buy American Act Compliant

Modules made in Suntech's Arizona factory fully meet the requirements of the American Recovery and Reinvestment Act (ARRA) and Buy American Act (BAA), and are Trade Agreement Act (TAA) compliant.

### Industry-leading Warranty based on Pnom



- Based on nominal power (Pnom)
- 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

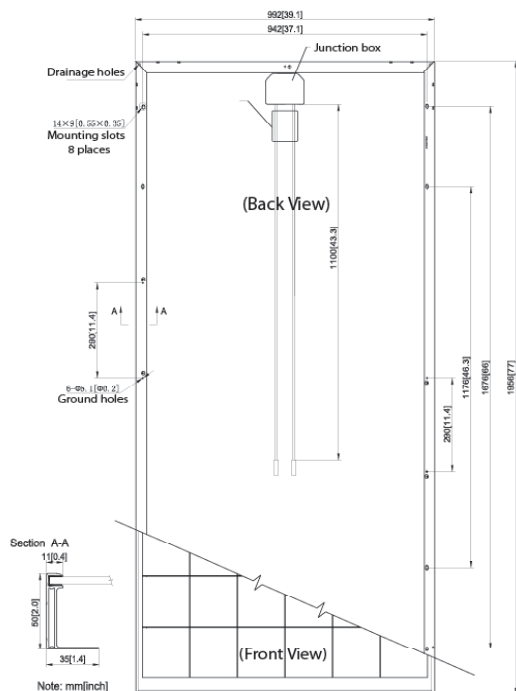


### Delivering only the highest quality products

Strict production guidelines staffed by highly-trained manufacturing experts and rigorous quality control ensures we deliver only the highest quality products to our customers.

\* 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.



## Electrical Characteristics

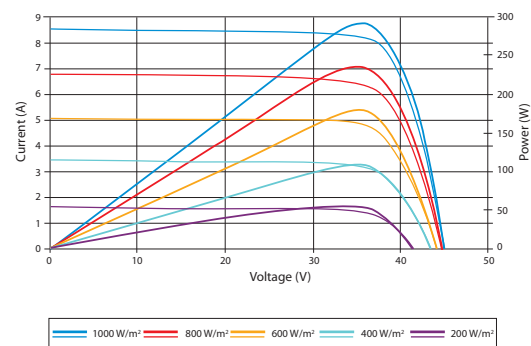
STC	STP295-24/Vd
Optimum Operating Voltage (Vmp)	35.7 V
Optimum Operating Current (Imp)	8.27 A
Open Circuit Voltage (Voc)	45.1 V
Short Circuit Current (Isc)	8.57 A
Maximum Power at STC (Pmax)	295 W
Module Efficiency	15.2%
Operating Module Temperature	-40 °C to +85 °C
Maximum System Voltage	1000 V DC (IEC) / 600V DC (UL)
Maximum Series Fuse Rating	20 A
Power Tolerance	0/+5 %

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	STP295-24/Vd
Maximum Power at NOCT (Pmax)	215 W
Optimum Operating Voltage (Vmp)	32.3 V
Optimum Operating Current (Imp)	6.66 A
Open Circuit Voltage (Voc)	41.3 V
Short Circuit Current (Isc)	6.90 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 (295-24)



Excellent performance under weak light conditions: at an irradiance intensity of 200 W/m<sup>2</sup> (AM 1.5, 25 °C), 95.5% or higher of the STC efficiency (1000 W/m<sup>2</sup>) is achieved

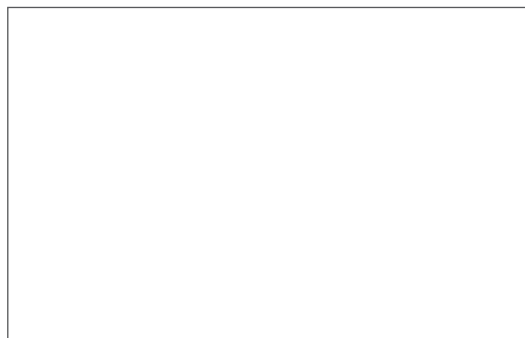
## Temperature Characteristics

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 mm <sup>2</sup> (0.006 inches <sup>2</sup> ), symmetrical lengths (-) 1100mm (43.3 inches) and (+) 1100 mm (43.3 inches)
Connectors	H4 connectors(MC4 connectable)

## Dealer information



Specifications are subject to change without further notification

## 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