

270 Watt

POLY-CRYSTALLINE SOLAR PANEL

Features

- High conversion efficiency based on leading innovative photovoltaic technologies
- High reliability with guaranteed $\pm 3\%$ power output tolerance, ensuring return on investment
- Withstands high wind-pressure and snow load (passed IEC 5400Pa mechanical loading test), and extreme temperature variations

Quality and Safety

- 25-year power output transferable warranty
- Rigorous quality control meeting the highest international standards
- ISO 9001:2000 (Quality Management System) and ISO 14001:2004 (Environmental Management System) certified factories manufacturing world class products
- IEC61215, IEC61730, conformity to CE

Recommended Applications

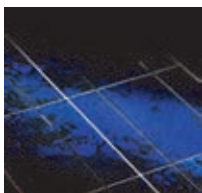
- On-grid utility systems
- On-grid commercial systems
- Off-grid ground mounted systems



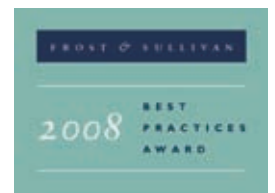
Unique Suntech Back Surface Field (BSF) structure and anti-reflective coating increase cell conversion efficiency



Special design on drainage holes and rigid construction prevents frame from deforming or breaking due to freezing weather and other forces



Advanced cell texturing and passivation processes improve module low light irradiance performance and provide more field power output



Suntech was named Frost and Sullivan's 2008 Solar Energy Development Company of the Year

Electrical Characteristics

Characteristics	STP280-24/Vb	STP270-24/Vb	STP260-24/Vb
Open - Circuit Voltage (Voc)	44.8V	44.5V	44.0V
Optimum Operating Voltage (Vmp)	35.2V	35.0V	34.8V
Short - Circuit Current (Isc)	8.33A	8.20A	8.09A
Optimum Operating Current (Imp)	7.95A	7.71A	7.47A
Maximum Power at STC (Pmax)	280Wp	270Wp	260Wp
Operating Temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Maximum System Voltage	1000V DC	1000V DC	1000V DC
Maximum Series Fuse Rating	20A	20A	20A
Power Tolerance	±3 %	±3 %	±3 %

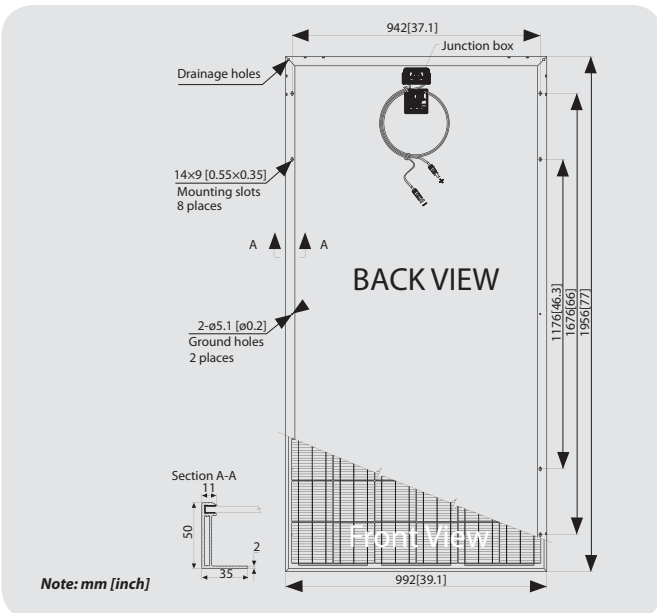
STC: Irradiance 1000W/m², Module temperature 25°C, AM=1.5

Mechanical Characteristics

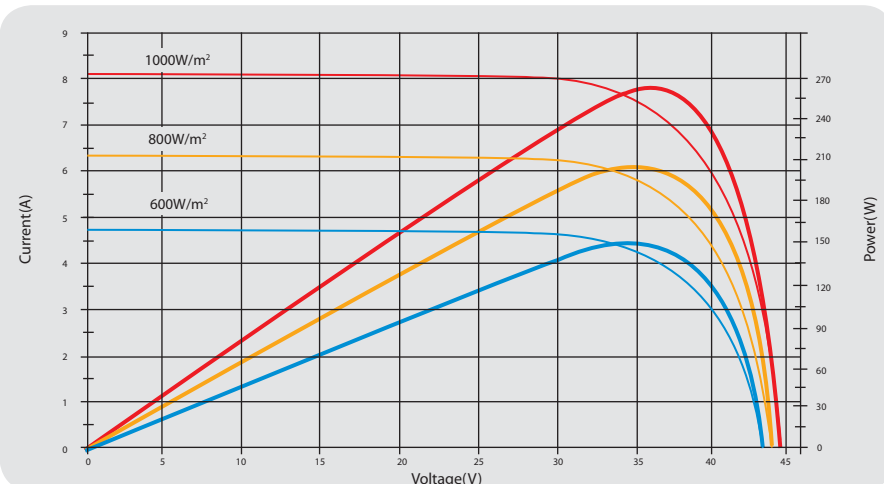
Solar Cell	Poly-crystalline 156×156mm (6inch)
No. of Cells	72 (6×12)
Dimensions	1956×992×50mm (77.0×39.1×2.0inch)
Weight	27 kg (59.5lbs.)
Front Glass	4mm(0.16inch) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP65 rated
Output Cables	LAPP 4.0mm ² (0.006inch ²), asymmetrical lengths (-) 1200mm(47.2inch) and (+)800mm(31.5inch), MC Plug Type IV connectors

Temperature Coefficients

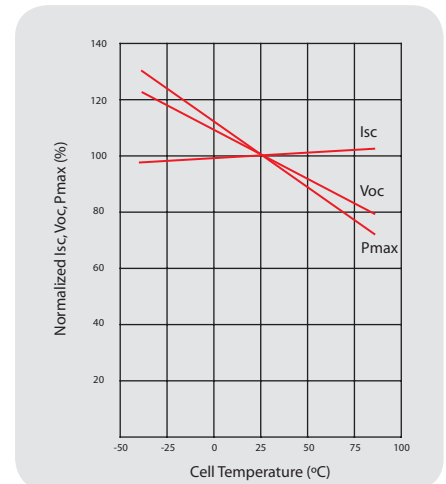
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.47 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.045 %/°C



Current-Voltage & Power-Voltage Curve (260W)



Temperature Dependence of Isc, Voc, Pmax



Specifications are subjected to change without further notice