

# 270 Watt

## POLY-CRYSTALLINE SOLAR PANEL

### Features

- High conversion efficiency based on innovative photovoltaic technologies
- High reliability with guaranteed +/-3% power output tolerance
- Withstands high wind-pressure and snow load, and extreme temperature variations

### Quality and Safety

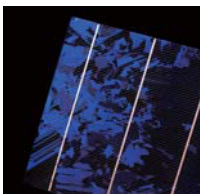
- Rigorous quality control meeting the highest international standards
- ISO 9001:2000 (Quality Management System) manufacturing world class products
- UL listings: RHOS, Class C fire rating, conformity to CE

### Recommended Applications

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



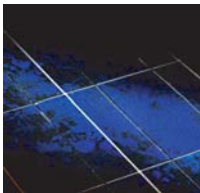
RHOS CE



Suntech's technology yields improvements to BSF structure and anti-reflective coating to increase conversion efficiency

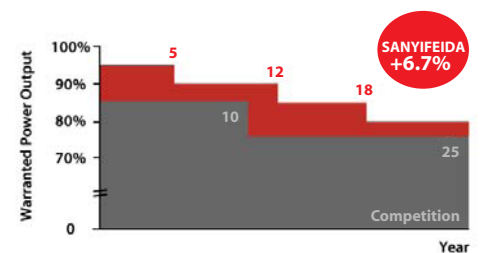


Unique design on drainage holes and rigid construction prevents frame from deforming or breaking due to freezing weather and other forces



The panel provides more field power output through an advanced cell texturing and isolation process, which improves low irradiance performance

### Industry-Leading Warranty

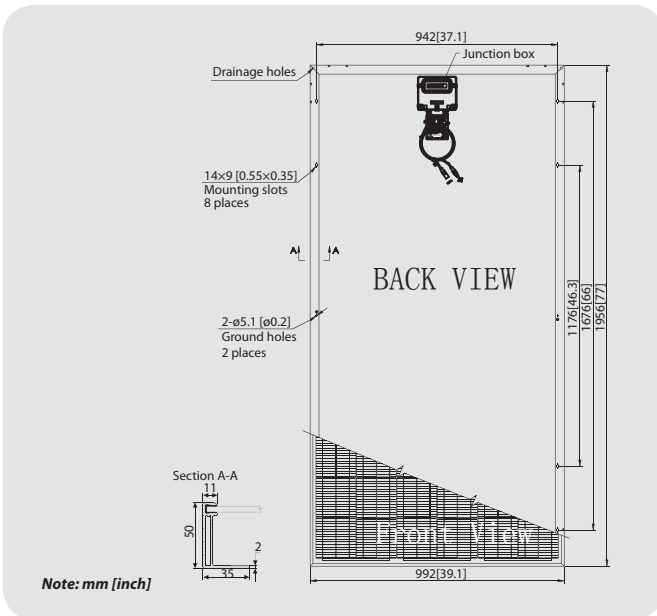


- 25-year, transferable power output warranty: 5 year/95%, 12 year/90%, 18 year/85%, 25 year/80%
- Warrants 6.7% more power than industry standard
- 5 year material and workmanship warranty

## Electrical Characteristics

Characteristics	SY280 - 24/Vb-1	SY270 - 24/Vb-1	SY260 - 24/Vb-1
Open - Circuit Voltage (Voc)	44.8V	44.5V	44V
Optimum Operating Voltage (Vmp)	35.2V	35V	34.8V
Short - Circuit Current (Isc)	8.33A	8.2A	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	600V DC	600V DC	600V DC
Maximum Series Fuse Rating	20A	20A	20A
Power Tolerance	±3 %	±3 %	±3 %

STC: Irradiance 1000W/m<sup>2</sup>, Module temperature 25°C, AM=1.5



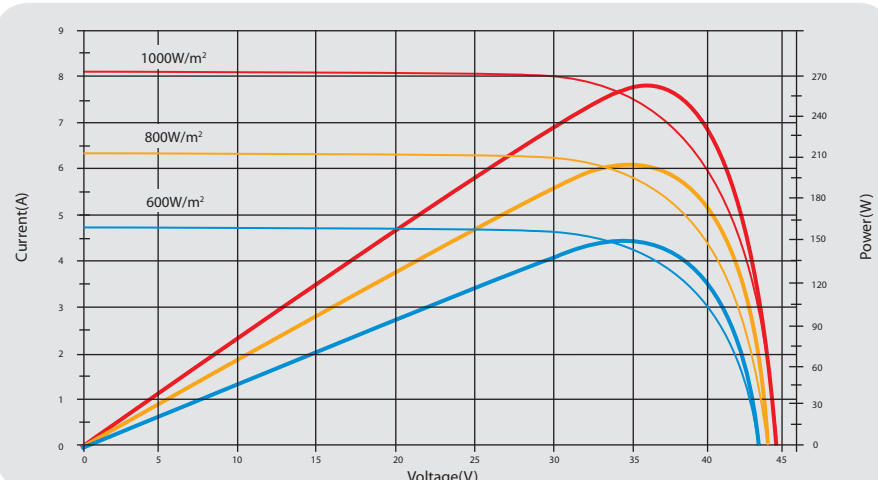
## Mechanical Characteristics

Solar Cell	Poly-crystalline 156x156mm (6 inch)
No. of Cells	72 (6x12)
Dimensions	1956x992x50mm (77.0x39.1x2.0 inch)
Weight	27 kg (59.5 lbs.)
Front Glass	4mm(0.16 inch) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP67 rated
Output Cables	Symmetrical lengths (-) 1100mm (43.3 inch) and (+) 1100mm (43.3 inch), MC Plug Type IV connectors

## Temperature Coefficients

Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-(0.47 ± 0.05) %/°C
Temperature Coefficient of Voc	-(0.34 ± 0.01) %/°C
Temperature Coefficient of Isc	(0.055 ± 0.01) %/°C

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



Temperature Dependence of Isc, Voc, Pmax

