

# Photovoltaic Module

## PRODUCT RANGE

MULTICRYSTALLINE 220Wp – 270Wp

### Feature

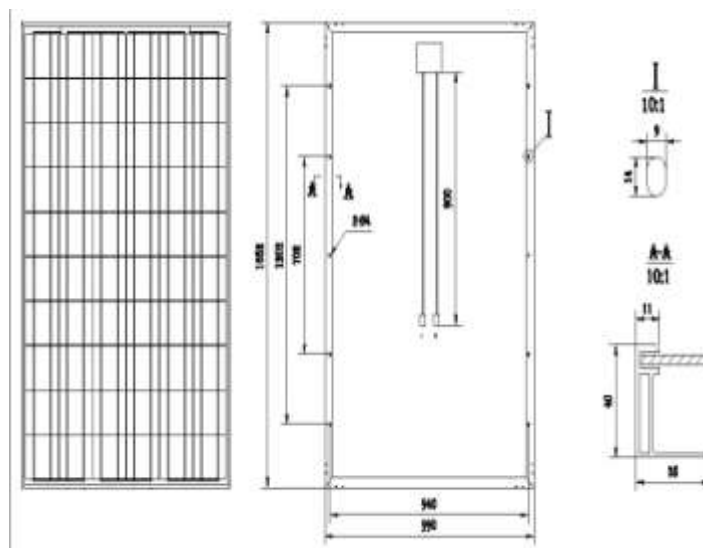
- High conversion efficiency based on leading innovative photovoltaic technologies
- High reliability with guaranteed  $\pm 3\%$  power output tolerance, ensuring return on investment
- Withstands high wind-pressure and snow load (passed IEC 5400Pa mechanical loading test), and extreme temperature variations

### 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

- Residential roof top systems
- On-grid utility systems
- On-grid commercial systems



MULTICRYSTALLINE  
PHOTOVOLTAIC MODULE 220Wp – 270Wp

TECHNICAL DATA

Model No.						
Maximum Power @ STC	Pmax	220Wp	230Wp			270Wp
Open Circuit Voltage	Voc	36.5V	36.8V			37.5V
Optimum Operating Voltage	Vmp	29.8V	30.0V			30.5V
Short Circuit Current	Isc	8.12A	8.34A			8.94A
Optimum Operating Current	Imp	7.40A	7.67A			8.22A
Operating Temperature	-40°C to +85°C					
Maximum System Voltage		1000VDC	1000VDC			1000VDC
Maximum Serials Fusing Rating		20A	20A			20A
Power Tolerance		±3%	±3%			±3%
Module Efficiency		13.3%	13.9%			13.9%
Type of Solar Cell	Multicrystalline, 156 x 156 mm (6-inch)					
No. of Cells	60 (6 x 10)			72 (6 x 12)		
Dimensions	1652 x 990 x 50 mm			1956 x 992 x 50 mm		
Net Weight	22 kg			27 kg		
Frame	Anodized aluminum alloy					
Front Glass	3.2 mm tempered glass					
Backsheet	TPT (DNP Japan)					
Junction Box	IP65 rated					
Cables	LAPP 4.0 mm <sup>2</sup> , asymmetrical lengths (-) 1200 mm and (+) 800 mm; MC Plug Type IV connectors					
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					



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

[All technical data subject to changes without prior notice.]