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Solar Panel Guide Specification Data Sheet

Full Solar Co., Ltd.

F-270-310P

F-270P

Also available on the web at
EnergyPal.com/full-solar-co-ltd-solar-panels/f-270p

Poly-Crystalline Solar PV Module 72 Cells Series (156MMX156MM)



Performance

- ♦ Water resistant junction box with bypass diode and high strength polymer sheet on module's rear ensures module is sealed from moisture and mechanical damage
- ♦ High transmissivity low-iron toughened glass
- ♦ Excellent week light performance
- ♦ Unique drainage hole design and aluminum frame

Quality and Reliability

- ♦ Superior reliability with guaranteed +/-3% power output tolerance
- ♦ 10 years warranty on materials and workmanship,
- ♦ 25 years linear power warranty, 97% in the first year, 91% in 10th year, and ending with 80% in 25th year
- ♦ Cells are individually tested, characterized and modulated prior to interconnection
- ♦ Test and produce standard: IEC61215, IEC61730, ISO 9001:2008, ISO14001:2004, OHSAS18001:2007, TIS18001:2011, TIS1843:2553, TIS2580:2555

Electrical Characteristics

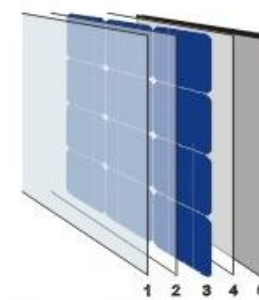
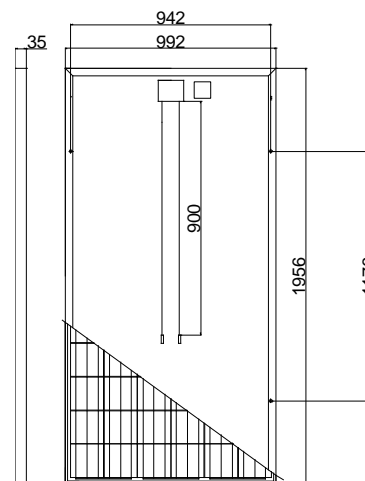
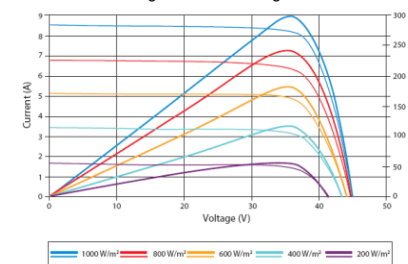
Specification	F-270P	F-280P	F-290P	F-300P	F-310P
Rating power at STC (Wp)	270W	280W	290W	300W	310W
Open circuit voltage (Voc)	44.6V	44.8V	45.2V	45.6V	45.7V
Short circuit current (Isc)	8.25A	8.35A	8.50A	8.65A	8.76A
Rated voltage (Vm)	35.5V	35.8V	36.1V	36.4V	37.5V
Rated current (Im)	7.61A	7.82A	8.03A	8.24A	8.26A
Module efficiency (%)	13.92%	14.43%	14.95%	15.46%	15.98%
Power tolerance	±3%				
Temperature coefficient of Pm	-0.47%/K				
Temperature coefficient of Isc	+0.038%/K				
Temperature coefficient of Voc	-0.34%/K				
Maximum system voltage	DC600v (UL) / DC1000V (IEC)				

All technical data at STC: AM1.5; 1000W/m²; 25°C

Mechanical Characteristics

Solar Cell	Polycrystalline 156 x 156 mm (6 inches)
No. of cells	72 (6X12)
Nominal Operating Cell Temperature (NOCT)	46 ± 2 °C
Operation temperature	From -40 to + 85°C
Typical Application	24V DC
Max series fuse rating	15 A
Max wind resistance	2400Pa
Surface max. load capacity	5400Pa
Weight	21.4kg
Dimension	1956X992X35MM

Current-Voltage & Power-Voltage Curve (285-24)



1. Tempered glass
2. EVA
3. Cells
4. EVA
5. Back sheet