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Solar Panel Guide Specification Data Sheet

Full Solar Co., Ltd. F-235-270M F-270M

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



Mono-Crystalline Solar PV Module 60 Cells Series (156MMX156MM)



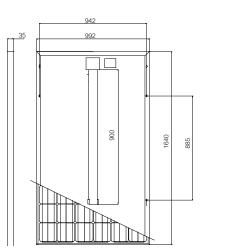
Performance

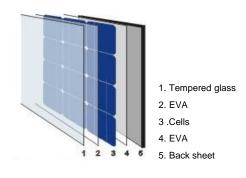
• Water resistant junction box with bybass diode and high strength polymer sheet on module's rear ensures module is sealed from moisture and mechanical damage

- · 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-235M	F-240M	F-245M	F-250M	F-255M	F-260M	F-265M	F-270M
Rating power at STC (Wp)	235W	240W	245W	250W	255W	260W	265W	270W
Open circuit voltage (Voc)	37.5V	37.6V	37.8V	37.9V	38.0V	38.1V	38.2V	38.3V
Short circuit current (lsc)	8.35A	8.45A	8.55A	8.65A	8.75A	8.85A	8.95A	9.05A
Rated voltage (Vm)	29.8V	30.0V	30.2V	30.4V	30.6V	30.8V	31.0V	31.2V
Rated current (lm)	7.90A	8.00A	8.13A	8.24A	8.35A	8.46A	8.55A	8.65A
Module efficiency (%)	14.44%	14.75%	15.06%	15.37%	15.67%	15.98%	16.29%	16.60%
Power tolerance	±3%							
Temperature coefficient of Pm	-0.47%/K							
Temperature coefficient of lsc	+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/m ² ; 25°C								

Mechanical Characteristics				
Solar Cell	Monocrystalline 156 x 156 mm (6 inches)			
No. of cells	60 (6X10)			
Nominal Operating Cell Temperature (NOCT)	46 ± 2 °C			
Operation temperature	From -40 to + 85°C			
Typical Application	24V DC			
Max series fuse rating	15A			
Max wind resistance	2400Pa			
Surface max. load capacity	5400Pa			
Weight	18.3kg			
Dimension	1640X992X35MM			

Current-Voltage & Power-Voltage Curve (255S-20)

