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Solar Panel Guide Specification Data Sheet

Full Solar Co., Ltd.

F-235-270M

F-235M

Also available on the web at
EnergyPal.com/full-solar-co-ltd-solar-panels/f-235m

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

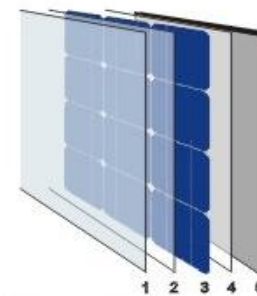
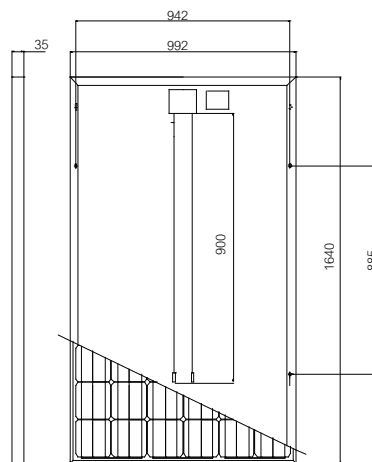
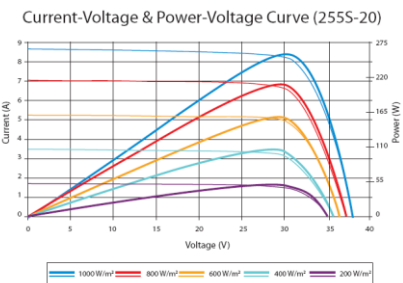
- ♦ Superior reliability with guaranteed +/-3% power output tolerance
- ♦ 10 years warranty on materials and workmanship,
- ♦ 25 years linear power warranty, 97% in the first year, 91% in 10th year, and ending with 80% in 25th year
- ♦ Cells are individually tested, characterized and modulated prior 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 (Isc) | 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 (Im) | 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 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/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 |



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