

For a Free Quote:

Web: EnergyPal.com/solar

Call: 1-800-990-3725

Email: contact@energypal.com

EnergyPal

Solar Panel Guide Specification Data Sheet

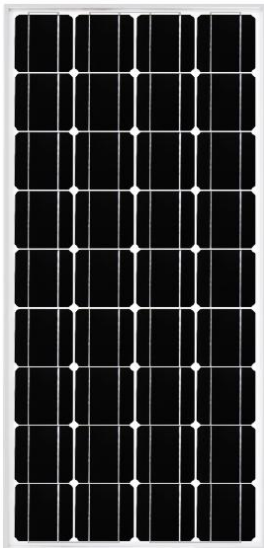
Full Solar Co., Ltd.

F-130-160M

F-160M

Also available on the web at
EnergyPal.com/full-solar-co-ltd-solar-panels/f-160m

Mono-Crystalline Solar PV Module 36 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

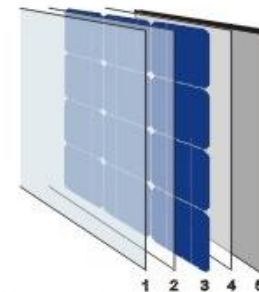
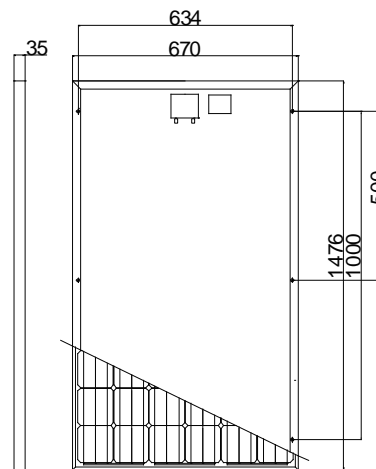
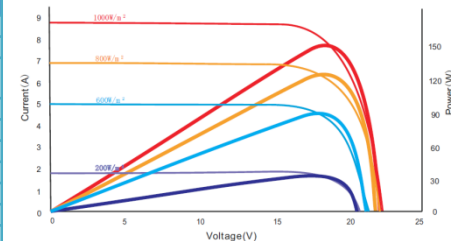
| Specification | F-130M | F-135M | F-140M | F-145M | F-150M | F-155M | F-160M |
|--------------------------------|-----------------------------|--------|--------|--------|--------|--------|--------|
| Rating power at STC (Wp) | 130W | 135W | 140W | 145W | 150W | 155W | 160W |
| Open circuit voltage (Voc) | 22.1V | 22.2V | 22.4V | 22.6V | 22.8V | 23.0V | 23.1V |
| Short circuit current (Isc) | 7.96A | 8.21A | 8.46A | 8.76A | 8.83A | 8.95A | 9.01A |
| Rated voltage (Vm) | 17.5V | 17.6V | 17.8V | 17.9V | 18.4V | 18.7V | 19.0V |
| Rated current (Im) | 7.43A | 7.68A | 7.88A | 8.10A | 8.19A | 8.27A | 8.43A |
| Module efficiency (%) | 13.14% | 13.65% | 14.16% | 14.66% | 15.17% | 15.67% | 16.18% |
| 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 | Monocrystalline 156 x 156 mm (6 inches) |
| No. of cells | 36 (4X9) |
| Nominal Operating Cell Temperature (NOCT) | 46 ± 2 °C |
| Operation temperature | From -40 to + 85°C |
| Typical Application | 12V DC |
| Max series fuse rating | 10A |
| Max wind resistance | 2400Pa |
| Surface max. load capacity | 5400Pa |
| Weight | 10.6kg |
| Dimension | 1476X670X35MM |

Current-Voltage & Power-Voltage Curve (150-12)



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