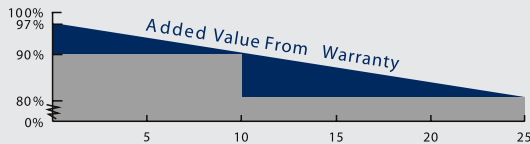


Monocrystalline Solar Module  
FE-270M Series-270/275/280/285/290/295/300  
Number of Cells: 72 (6") | Dimensions: 1962 x 992 x 45 mm

## PRODUCT ADVANTAGE

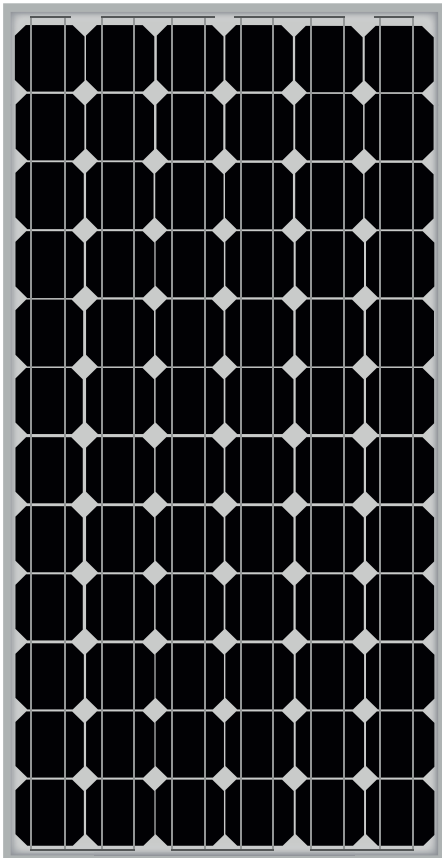
- ◆ High module conversion efficiency: With our cutting-edge manufacturing technology, module conversion efficiency reaches up to 15.4%.
- ◆ Multiple performance tests: Full output power tests, ELED tests and frame seal tests for each panel.
- ◆ Fire Energy Junction box: IP65 rated junction box (approved by TUV and UL) improves module performance.
- ◆ Delivery inspection: Specific inspection report comes with Bill of Lading for the client.
- ◆ Tracking availability: Unique identity code for each panel makes tracking easy.

### Linear Power Warranty



25 year linear power output warranty  
12 year product warranty on materials and workmanship

*\*Please refer to Fire Energy Warranty Terms for details.*



## PRODUCT APPLICATION

- ◆ On-grid and off-grid residential roof-tops
- ◆ On-grid and off-grid commercial/industrial roof-tops
- ◆ Rural area applications
- ◆ Solar power stations
- ◆ Other on-grid and off-grid applications

## QUALITY CERTIFICATIONS

IEC 61215, IEC 61730, MCS, conformity to CE, CERES



## ELECTRICAL DATA

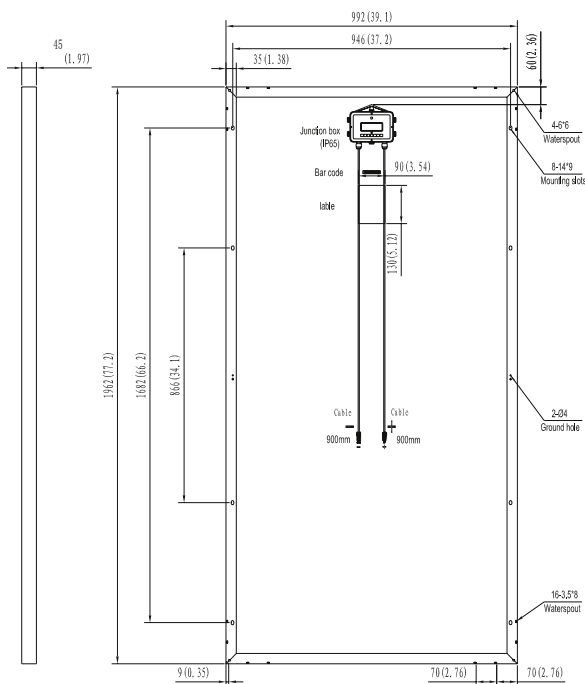
	FE-270M	FE-275M	FE-280M	FE-285M	FE-290M	FE-295M	FE-300M
Maximum Power at STC (Pmax)	270 W	275 W	280 W	285 W	290 W	295 W	300 W
Optimum Operating Voltage (Vmp)	35.86 V	36.19 V	36.32 V	36.83 V	37.33 V	37.78 V	38.03 V
Optimum Operating Current (Imp)	7.53 A	7.60 A	7.71 A	7.74 A	7.77 A	7.81 A	7.89 A
Open Circuit Voltage (Voc)	44.60 V	44.60 V	44.80 V	44.80 V	45.00 V	45.00 V	45.20 V
Short Circuit Current (Isc)	8.14 A	8.21 A	8.33 A	8.36 A	8.40 A	8.44 A	8.53 A
Module Efficiency	13.9%	14.1%	14.4%	14.6%	14.9%	15.2%	15.4%
Operating Module Temperature	- 40~+85°C for 200 cycles						
Maximum System Voltage	1000 V						
Power tolerance	0 ~+ 5 W						

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

## MECHANICAL DATA

Solar cell	Monocrystalline 156 × 156 mm (6 inches)
Number of Cells	72 (6 × 12)
Dimensions	1962 × 992 × 45 mm
Weight	22.5 kg
Frame	Anodized aluminium alloy
Junction box	IP65 rated
Cable size	4.0 mm <sup>2</sup>

## Physical Characteristics



## TEMPERATURE CHARACTERISTICS

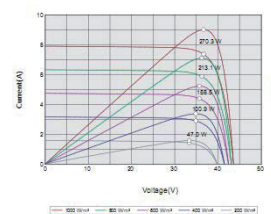
Power temperature coefficient	- 0.37%/°C
Current temperature coefficient	0.009%/°C
Voltage temperature coefficient	- 0.34%/°C
Ambient temperature	45 ± 2°C
Surface Maximum Load Capacity	2400 Pa
Max. hailstone impact (mass/velocity)	7.53 g/ 23 m/s
Maximum wind resistance	130 km/h

## PACKING CONFIGURATION

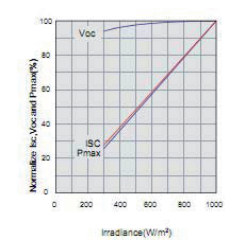
Container	40' GP
Pieces per pallet	18
Pallet per container	22
Pieces per container	396

## Electrical Characteristics

Electrical Performance cell temperature: 25°C



Irradiance dependence of Isc, Voc and Pmax cell temperature: 25°C



Temperature Dependence of Isc, Voc and Pmax

