






## FL-160W-MONO

Monocrystalline solar panel



### Product Features

-  Efficient monocrystalline modules are suitable for residential, public application areas, and can be widely used in the roof and ground electric power station projects.
-  Applying the most advanced module manufacturing technology with high output power. The maximum conversion rate is up to 16.62%.
-  Using anti-reflection glass, not only increases the absorption of light, but also strengthens its self-cleaning function when the modules are in the water environment, which can effectively reduce the power loss caused by dust.
-  Excellent low-light electricity generation performance.
-  Modules with strong compression capability, able to withstand 2400 Pa wind pressure and 5400 Pa snow load.

### Features

- high energy yields ensured by high conversion efficiency
- sturdy, clear anodized aluminum frame with pre-drilled holes for quick installation
- advanced EVA encapsulation with triple-layer backsheets, meets the most stringent safety requirements for high-voltage operation
- reliable bypass diodes to prevent overheating (hot spot effect) and to minimise power loss by shading

### Certification



### About US

Guangzhou Felicity Solar Technology Co., Ltd ( hereinafter referred to as Felicity solar ) is a company dedicated to developing photovoltaic high-tech products. Felicitysolar was founded in 2007, and its headquarters is located in Guangzhou, one of the important export cities in China.

Felicitysolar is a high-tech enterprise integrating R & D, production, sales, engineering design, installation and after-sales service. In the past 10 years, Felicitysolar uses advanced production equipment and production technology at home and abroad, concentrate on research, constant innovation, has formed its own unique characteristics of the technical advantages, product advantages and market advantages.

At present, our products have been exported to more than 100 countries and regions around the world, such as: African countries, Southeast Asia, the Middle East, and North America and South America, and has established a number of offices and subsidiaries at home and abroad. Felicitysolar will continue to focus on the popularity of solar energy storage system look into the future, adhering to the values of hard-working, innovation, focus and integrity, provide clean energy to the areas with insufficient power, and bright their life

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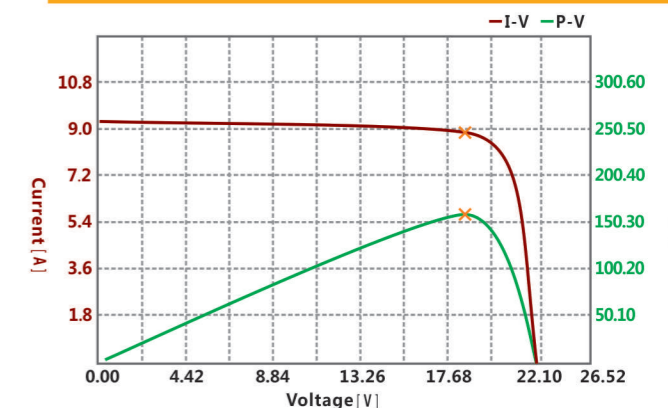
### Engineering Drawing



### Specifications

Peak Power(PMP)	160Wp
Production Tolerance	±3%
Open-Circuit Voltage(VOC)	21.84V
Maximum Power Current(IMP)	8.80A
Maximum Power Voltage(VMP)	18.20V
Short-Circuit Current(ISC)	9.33A
Maximum System Voltage	1000VDC
Cell Technology	MONOCRYSTALLINE SILICON
Module Dimension	1480x680x30mm
Weight	10.8kg

### I - V



### Product parameters

Module	Mono
Name	FL-M-160Wp
Manufacturer	Felicitysolar
Cell area(mm)	156*156(mm)
Cell parallel	4*9
Ambient temp(°C)	25°C
Irradiance(W/□)	1000(W/m²)
Vmp(V)	18.20V
Power current(IMP)	8.80 A
Voc(V)	21.84V
Short circuit current	9.33A
Peak power	164.9Wp
F.F	77.7708
Module eff.(%)	16.62%
Est.series resistance(ohm)	0.0944
V_Load(V)	18.6V