

About Us

Felicity Solar Limited was founded in 2007, located in Guangzhou, China. We have specialized in the solar field for 7 years and made great achievements in overseas markets. For the past 7 years, we developed rapidly and become a leading enterprise in the field.

Our major products are solar power system, solar street light and other applicable products such as solar rechargeable lamp, solar fan and so on. We enjoy our company with high technology, experienced engineer, skilled staff and high efficient production line. Taking Customers as Our Orientation, we can provide perfect technical guidance and after-sales service.

To strengthen our competency, we improve the quality of our products by optimizing our production process. Thus, we have been approved by ISO9001, CE, ROHS, SONCAP and other authoritative international certifications. Currently we have cooperated with partners from more than 40 countries and regional markets from Australia, Turkey, UAE, Singapore, Nigeria and so on and set up more than 10 branch offices in domestic and overseas markets. We are devoted to a sustainable, energy-saving environment-friendly life and hope that you can join us and contribute a better life for people in the world.

Felicity Solar Limited

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FL-150W-POLY
Polycrystalline 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 16.38%.
- 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.

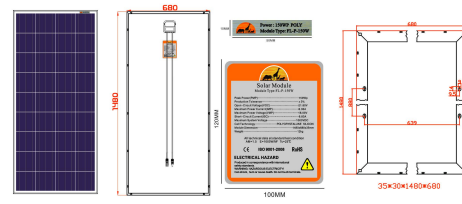
Features

- 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 backsheet, 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



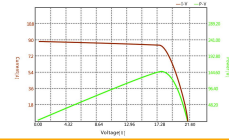
Engineering Drawing



Specifications

Peak Power (PMP)	150Wp
Production Tolerance	± 3%
Open-Circuit Voltage (VOC)	21.60V
Maximum Power Current (IMP)	8.33A
Maximum Power Voltage (VMP)	18.00V
Short-Circuit Current (ISC)	8.83A
Maximum System Voltage	1000VDC
Cell Technology	POLYCRYSTALLINE SILICON
Module Dimension	1480x680x35mm
Weight	12kg

I - V



Product parameters

Module	Poly
Name	FL-P-150Wp
Manufacturer	Felicitysolar
Product number	FZCP15018148068035A002G
Cell area (mm)	156*156 (mm)
Cell parallel	4*9
Ambient temp (°C)	25 °C
Irradiance (W/m²)	1000 (W/m²)
Vmp (V)	18.00V
Power current (IMP)	8.33 A
Voc (V)	21.60V
Short circuit current	8.83 A
Peak power	150.5Wp
F.F.	77.8563
Module eff. (%)	16.8%
Est. series resistance (ohm)	0.0925Ω
V_Load (V)	18.6V