



## Monocrystalline Photovoltaic Module

### LF180WP

#### Features

- High module efficiency and stable power output based on leading process technology
- Outstanding electrical performance under high-temperature conditions or low-irradiance conditions
- Ease of installation and all-weather applications due to the innovative engineering design

#### Applications

##### Grid Connected Systems

- Residential solar applications
- Public & Industrial applications

#### Quality and Warranty

- Peak power of single module is guaranteed in  $\pm 3\%$  power tolerance
- Average power of modules in single order is guaranteed not less than the peak power
- Average cell efficiency of 16.8%
- Meets the requirements of Quality Management System (ISO 9001) and Environmental Management System (ISO 14001)
- 25 year power output warranty

*(Refer to Warranty issued by Lifeline Energy)*



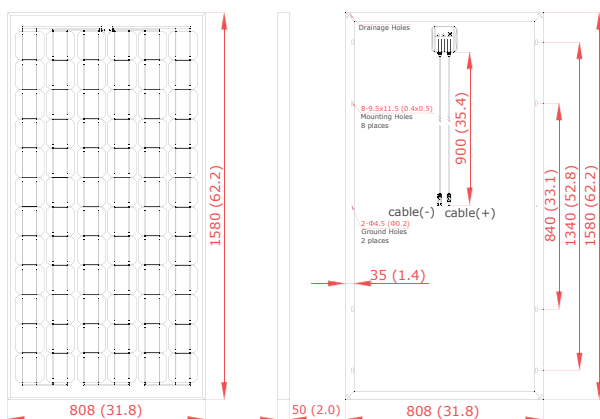


## Electrical Characteristics

Module Type	Unit	LF180WP
Maximum Power (Pmax)	W	180
Power Tolerance	%	±3
Open Circuit Voltage	V	44.4
Short Circuit Current (Isc)	A	5.35
Maximum Power Voltage (Vmp)	V	35.4
Maximum Power Current (Imp)	A	5.08
Average Cell Efficiency (ηc)	%	16.8
Cell Technology	125mm×125mm Mono-Crystalline Silicon; 72pcs (6×12)	
Pmax Temperature Coefficient	%/°C	-.48
Voc Temperature Coefficient	%/°C	-.35
Isc Temperature Coefficient	%/°C	+.04
Maximum System Voltage	VDC	1000
Maximum Series Fuse Rating	A	15
Operating Temperature	°C	-40 ~ +85
NOCT	°C	45±2

STC: 1000W/m<sup>2</sup>, AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature

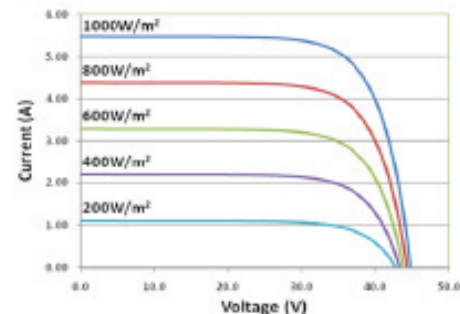
## Physical Characteristics Unit: mm (inch)



Dimension	1580×808×50 mm (62.2×31.8×2.0 inch)
Weight	16 kg (35.3lbs.)
Cable Length	900 mm (35.4 inch)
Bypass Diodes	3pcs
Junction Box	IP65 rated
Front Glass	3.2mm(0.1inch) tempered low-iron glass
Frame	Anodized aluminum alloy

## I-V Curves

I-V Curves of PV Module LF180WP (Cell Temp. 25°C)



I-V Curves of PV Module LF180WP at different cell temperatures (AM1.5, 1000W/m<sup>2</sup>)

