

## LF235WP-US – LF250WP-US

High-Efficiency Monocrystalline Photovoltaic Module



### Features

- High module efficiency and stable power output based on leading process technology
- Outstanding electrical performance under high-temperature conditions or low-irradiance conditions
- Engineering innovation that creates an unmatched balance of power and performance
- Ease of installation and all-weather applications due to our innovative engineering design for size and weight
- Withstands high wind-pressure and loads
- Handles 1" diameter hail crystals

### Applications

*Lifeline panels are ideal for grid tie applications*

- Residential roof top systems
- Large commercial grid tie systems
- Public & industrial applications
- Water pumping systems
- Ground mounted solar arrays



*\*Go Solar California SB1 Compliance Photovoltaic Modules*  
*\*\*Certified in accordance with the Florida Solar Energy Center*



### Quality and Warranty

- High average cell efficiency of 17.5%
- 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

### Meets all "Made in the U.S.A." requirements

- ETL approved under UL-1703 standard
- Modules are fire rated: Class C
- Modules are listed under CEC 300-2008
- 25 year power output warranty @ 80%  
*(Refer to warranty issued by Lifeline Energy)*

### Lifeline Energy, USA

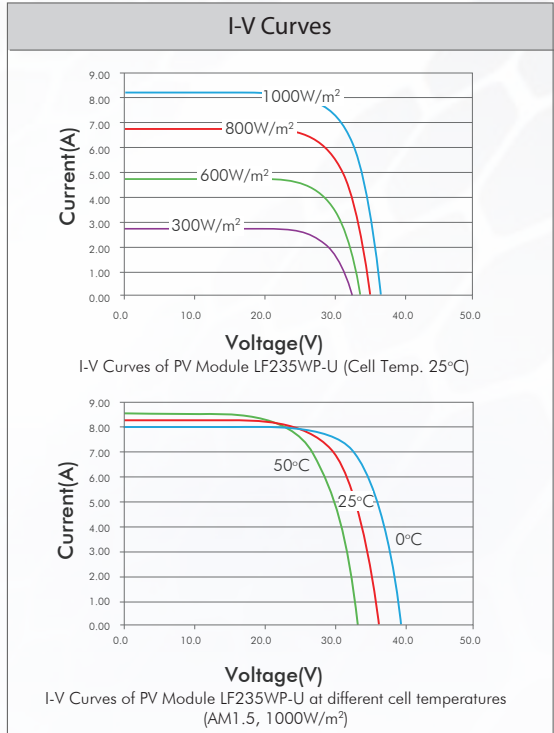
## LF235WP-US – LF250WP-US // Specifications and Performance

Module Output Cables Now Compliant with 12AWG with Locking Connectors

Electrical Data					
STC: 1000W/m <sup>2</sup> , AM=1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature					
Module Type	Unit	LF235WP-U	LF240WP-U	LF245WP-U	LF250WP-U
Maximum Power (Pmax)	W	235	240	245	250
Power Tolerance	%	(0, +3)	(0, +3)	(0, +3)	(0, +3)
Open Circuit Voltage	V	37.0	37.1	37.2	37.3
Short Circuit Current (Isc)	A	8.54	8.58	8.62	8.66
Maximum Power Voltage (Vmp)	V	29.3	29.7	30.2	30.7
Maximum Power Current (Imp)	A	8.02	8.07	8.10	8.15
Cell Efficiency (ηc)	%	17.4	17.5	17.6	17.8
Module Efficiency	%	14.4	14.7	15.0	15.3
Cell Technology	156mm×156mm Monocrystalline Silicon; 60pcs (6×10)				
Pmax Temperature Coefficient	%/°C	-0.48			
Voc Temperature Coefficient	%/°C	-0.37			
Isc Temperature Coefficient	%/°C	+0.09			
Maximum System Voltage	VDC	600 (UL)			
Operating Temperature	°C	-40°C ~ +90°C			
NOCT	°C	50			

\*Deviation of Vm(V), Im(A), Voc(V) and Isc(A) of ±10%

Mechanical Data	
*Specifications are subject to change without further notice	
Dimension	1652 x 990 x 50 mm (65 x 39 x 2 in)
Weight	24 kg (53.0 lbs.)
Output Cables	1m cable (39 3/8 in), 12 AWG, UL approved
Diode	15A
Junction Box	MIM Slim, IP-65 rated, UL approved
Connectors	MC-4, IP-67, UL approved
Encapsulation Material	EVA (0.46 thickness)
Back Foil	Black or White (UV protected)
Front Glass	4 mm tempered low-iron glass
Frame	Anodized aluminum alloy type 6063-T5



### Warranty Information

- 5-years: Product Warranty
- 10-years: Performance Warranty at 90% Power Output
- 25-years: Performance Warranty at 80% Power Output

