

LF280WP-M – LF300WP-M

Highest Efficiency Monocrystalline Photovoltaic Module



Features

- High module efficiency (up to 18.1%) 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 our innovative engineering design for size and weight
- Engineering innovation that creates an unmatched balance of power and performance

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 up to 18.1%
- 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

- 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)

Lifeline Energy, USA

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LF280WP-M – LF300WP-M// Specifications and Performance

NEC 2008 Compliant Module Output Cables Now 12AWG with Locking Connectors

Electrical Data						
STC: 1000W/m ² , AM1.5 and 25°C cell temperature; NOCT: Nominal Operating Cell Temperature						
Module Type	Unit	LF280WP-M	LF285WP-M	LF290WP-M	LF295WP-M	LF300WP-M
Maximum Power (Pmax)	W	280	285	290	295	300
Power Tolerance	%	(0, +5)	(0, +5)	(0, +5)	(0, +5)	(0, +5)
Open Circuit Voltage	V	44.8	44.9	45.0	45.2	45.3
Short Circuit Current (Isc)	A	8.33	8.58	8.68	8.78	8.88
Maximum Power Voltage (Vmp)	V	35.2	35.6	35.7	35.9	36.0
Maximum Power Current (Imp)	A	7.95	8.03	8.13	8.23	8.33
Cell Efficiency (ηc)	%	16.8 ~ 17.1	17.1 ~ 17.4	17.4 ~ 17.7	17.7 ~ 18.0	18.0 ~ 18.3
Cell Technology	156mm×156mm Monocrystalline Silicon; 72pcs (6×12)					
Pmax Temperature Coefficient	%/°C	-0.40				
Voc Temperature Coefficient	%/°C	-0.32				
Isc Temperature Coefficient	%/°C	+0.04				
Maximum System Voltage	VDC	1000 (TUV); 600 (UL)				
Maximum Series Fuse Rating	A	13				
Operating Temperature	°C	-40 ~ +85				
NOCT	°C	45±2				

Mechanical Data	
*Specifications are subject to change without further notice	
Dimension	1956 x 992 x 50 mm (77.0 x 39.1 2.0 inch)
Weight	24 kg (52.9 lbs.)
Cable Length	900 mm (35.4 inch)
Bypass Diodes	3pcs
Junction Box	IP65 rated
Front Glass	3.2 mm (0.1 inch) tempered low-iron glass
Frame	Anodized aluminum alloy

Warranties	
25 years limited warranty for minimum power output (refer to warranty issued by Lifeline Energy)	

