

ALPHA Series Bifacial Mono PERC Cell Module



High Efficiency

Advanced solar cell technology ensures, The high module efficiency up to 21.3%.



Positive Tolerance

Module guarantees a positive-only power tolerance of 0 to +5w to bring extra benefit.



Strong Load Capacity

Module is capable to withstand 2400Pa wind loads and 5400Pa Snow loads.



Reliable quality

Module is manufactured in accordance with international quality standards ISO9001



Higher Weatherproof Rating

J-Box performs module with an environmental protection rating to IP68.



Salt and Corrosion Resistant

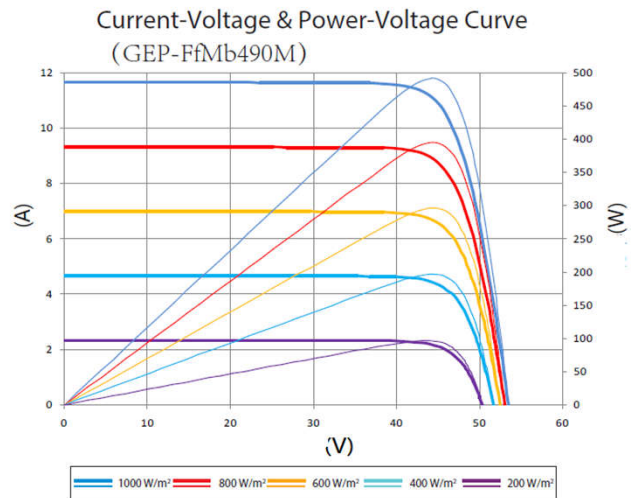
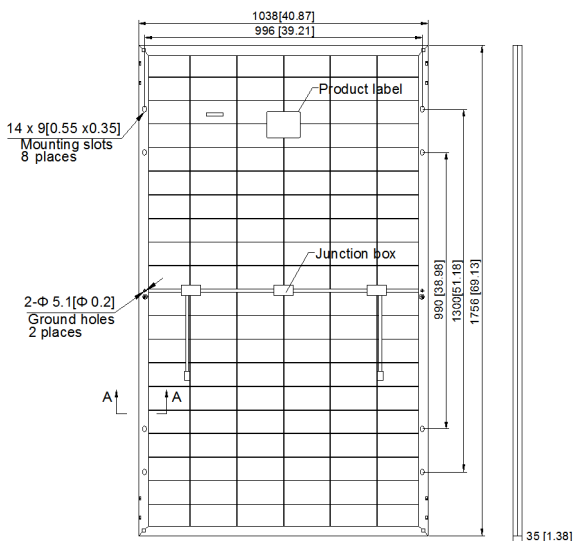
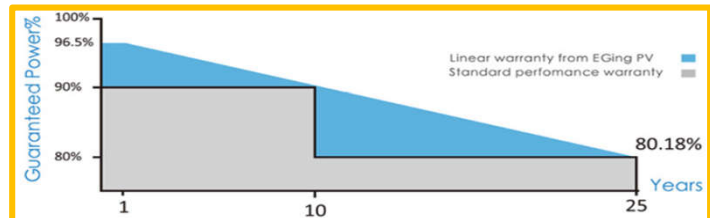
Highly Certified conform in higher salinity zone



Anti PID Solar Technology

Highly PID resistant in larger humidity areas

470 / 475 / 480 / 485 / 490



Electrical Characteristics

(STC)	GEP-FfMb470M	GEP-FfMb475M	GEP-FfMb480M	GEP-FfMb485M	GEP-FfMb490M
	GEP-FfMb470MH	GEP-FfMb475MH	GEP-FfMb480MH	GEP-FfMb485MH	GEP-FfMb490MH
Maximum Power (Pmax)	470W	475W	480W	485W	490W
Tolerance of power	0/+5W	0/+5W	0/+5W	0/+5W	0/+5W
Maximum Power Voltage(Vmp)	44.1V	44.3V	44.5V	44.7V	44.9V
Maximum Power Current(Imp)	10.66A	10.73A	10.79A	10.86A	10.92A
Open Circuit Voltage(Voc)	52.7V	52.9V	53.1V	53.3V	53.5V
Short Circuit Current (Isc)	11.4A	11.47A	11.53A	11.6A	11.66A
Module Efficiency	20.5%	20.7%	21.0%	21.2%	21.4%
Operating module Temperature	- 40°Cto +85°C				
Maximum system(DC) Voltage	DC1000V/1500V(IEC)				
Series Fuse Rating	20A				
NOCT*	45±2°C				
Temperature Coefficients of Pmax	- 0.36%/°C				
Temperature Coefficients of Voc	- 0.28%/°C				
Temperature Coefficients of Isc	+ 0.048%/°C				

MECHANICAL CHARACTERISTICS

Solar Cell	Mono crystalline 166×83mm 9BB	
Number of cells	156 (6×26)	
Dimensions	2264×1038×35mm (89.13×40.87×1.38inches)	
Weight	26.5Kg (58.42lbs)	
Front Glass	2.0mm front glass (bifacial)	
Frame	Aanodized aluminum alloy	
Junction Box	IP68 rated	
Cable	4mm ² solarcable 300mm(11.81 inches)	
Connector	MC4 PV-XT101.1/Z4S-abcde	

PACKING CONFIGURATION

	20GP	40HC
Pieces per pallet	31	31
pallets per container	5	20
Pieces per container	155	620

NOTE:

- 1.Design and specifications are subject to change without based on customer's requirements.
- 2.Refer to the installation and operating manual or contact Green energy power Renewable for detailed information on approved installation and use of this product.