

160 Watt Photovoltaic Module

EVERLIGHT ELM-160M Series

EVERLIGHT ELM-160M is designed specifically for on-grid residential systems where a combination of high module efficiency and outstanding appearance is desirable. Utilizing 72 cells (125 x 125mm) configured geometrically in a 12 x 6 matrix connected in series. An anti-reflective coating, provides a uniform blue color and increases the absorption of light in all weather conditions. Designed to withstand rigorous wither conditions; the multifunctional junction box avoids from eroding by moisture or humidity; torsion –proof, anodized and corrosion –free aluminum frame tightened by inner corner without using any screws, making EVERLIGHT ELM-160M great appearance and less power decrease during warrant period.

TYPICAL ELECTRICAL CHARACTERISTICS					
	ELM-160M-1	ELM-160M-2	ELM-160M-3	ELM-160M-4	ELM-160M-5
Maximum power	150W	160W	170W	180W	190W
Voltage at max. power	34.6V	34.9V	34.9V	35.2V	35.2V
Current at max. power	4.34A	4.58A	4.87A	5.11A	5.40A
Open circuit voltage	43.0V	43.4V	43.4V	43.6V	43.6V
Short circuit current	4.98A	5.12A	5.44A	5.50A	5.81A
Temperature coefficient of Isc	(0.065±0.015)%/°C				
Temperature coefficient of Voc	-(160±20)mV/°C				
Temperature coefficient of power	-(0.5±0.05)%/°C				
Max. oper. voltage	1000V				
Operating temperature	-40/+85 °C				
Resistance	227g steel ball down from 1m height and 60m/s wind				

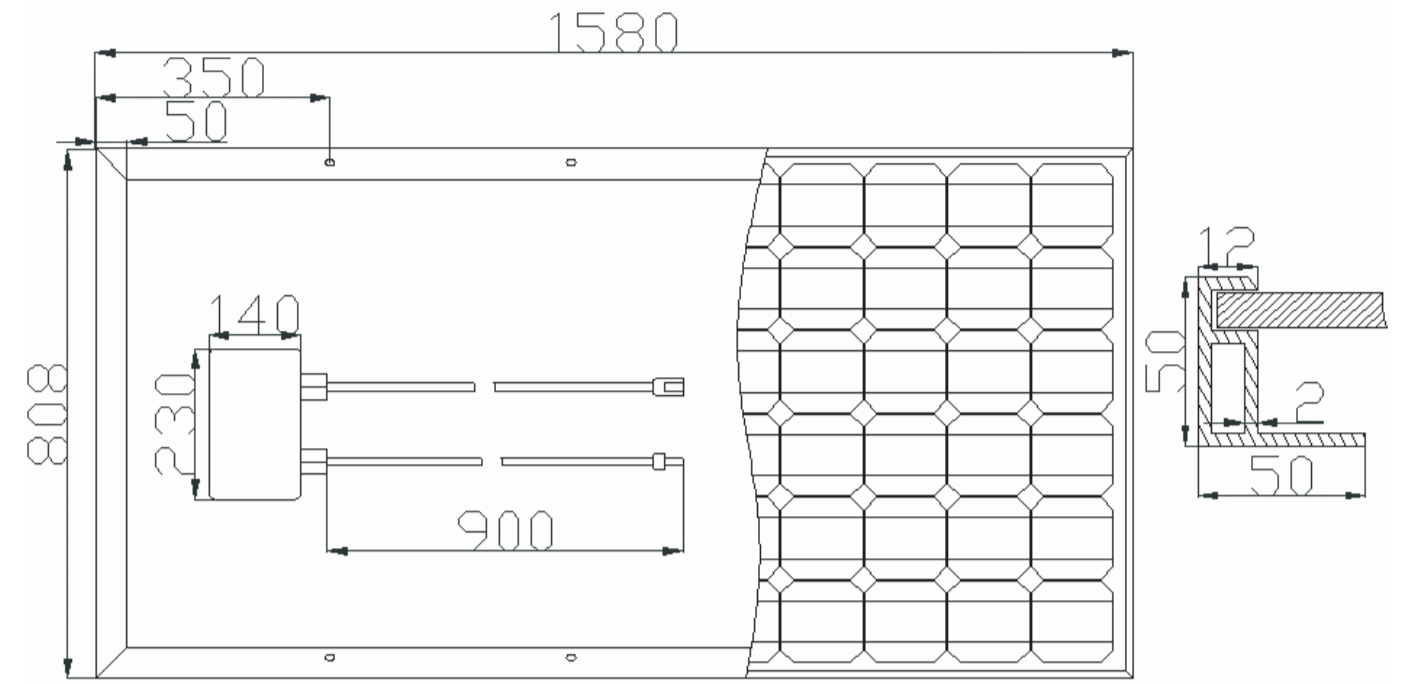
PERFORMANCE					
Model	ELM-160M-1	ELM-160M-2	ELM-160M-3	ELM-160M-4	ELM-160M-5
Rated power	150W	160W	170W	180W	190W
Tolerance	±5%	±5%	±5%	±5%	±5%
Module efficiency	14.0%	15.0%	15.9%	16.8%	17.8%
Nominal voltage	24V	24V	24V	24V	24V
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years				

MECHANICAL CHARACTERISTICS	
Dimensions(mm)	1580×808×50
Overall tolerances	±3mm
Weight(Kg)	16.0
Frame	Clear anodised aluminium alloy type 6063T6. Silver Universal frame.
Solar Cells	72 cells (125 x 125mm) configured geometrically in a 12 x 6 matrix connected in series.

Test conditions: @STC 1000W/m², AM1.5, 25°C

Product Standards: CE certified, TÜV according to IEC 61215 expected by Oct. 2007.

Module Diagram



Graph

