



Photovoltaic Module

Module Diagram

EVERLIGHT ELM-120M Series

EVERLIGHT ELM-120M is designed specifically for on-grid residential systems where a combination of high efficiency and outstanding appearance is desirable. Utilizing 36 cells (156 x 156mm) configured in a 9 x 4 matrix connected in series. An anti-reflective coating, provides a uniform blue color and the absorption of light in all weather conditions. Designed to withstand rigorous weather with the multifunctional junction box avoids from eroding by moisture or humidity; torsion-proof, corrosion-free aluminum frame tightened by inner corner without using any screws, making EVERLIGHT ELM-120M great appearance and less power decrease during warrant period.

TYPICAL ELECTRICAL CHARACTERISTICS			
	ELM-120M-1	ELM-120M-2	ELM-120M-3
Power	120W	130W	140W
Max. power	17.4V	17.5V	17.6V
Max. power	6.90A	7.45A	7.95A
Optimal voltage	21.7V	21.7V	21.8V
Optimal current	7.68A	8.32A	8.56A
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. voltage	1000V		
Temperature	-40/+85 °C		
	227g steel ball down from 1m height and 60m/s wind		

Graph

MECHANICAL CHARACTERISTICS	
Dimensions (mm)	1491×669×40
Tolerances	±3mm
	11.0
	Clear anodised aluminium alloy type 6063T6. Silver Universal frame.
	36 cells (156 x 156mm) configured geometrically in a 9 x 4 matrix connected in series.

PERFORMANCE			
	ELM-120M-1	ELM-120M-2	ELM-120M-3
Power	120W	130W	140W
	±5%	±5%	±5%
Efficiency	13.7%	14.8%	16.0%
Optimal voltage	12V	12V	12V
	Pm is not less than 90% in 10 years and 80% in 25 years		

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

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

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