



Photovoltaic Module

High Power (HP) ELM-300M Series

The ELM-300M is designed specifically for on-grid residential systems where a combination of high efficiency and outstanding appearance is desirable. Utilizing 72 cells (156 x 156mm) configured geometrically in a 12 x 6 matrix connected in series. An anti-reflective coating, provides a high transmittance and increases the absorption of light in all weather conditions. Designed to withstand harsh conditions; the multifunctional junction box avoids from eroding by moisture or humidity; corrosion-free aluminum frame tightened by inner corner without using any screws. EVERLIGHT ELM-300M offers great appearance and less power decrease during warranty period.

MECHANICAL CHARACTERISTICS	
Dimensions(mm)	1956×982×50
Overall tolerances	±3mm
Weight(Kg)	23.0
Frame	Clear anodised aluminium alloy type 6063T6. Silver Universal frame
Solar Cells	72 cells (156 x 156mm) 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

TYPICAL ELECTRICAL CHARACTERISTICS			
	ELM-300M-1	ELM-300M-2	ELM-300M-3
Power	260W	280W	300W
Open circuit voltage	34.4V	34.4V	34.4V
Short circuit current	7.56A	8.14A	8.72A
Maximum power voltage	41.3V	41.3V	41.3V
Maximum power current	8.21A	8.84A	9.48A
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		
Rated voltage	1000V		
Operating temperature	-40/+85 °C		
Impact	227g steel ball down from 1m height and 60m/s wind		

PERFORMANCE			
	ELM-300M-1	ELM-300M-2	ELM-300M-3
Power	260W	280W	300W
Tolerance	±5%	±5%	±5%
Efficiency	13.9%	15.0%	17.1%
Open circuit voltage	24V	24V	24V
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years		

Graph

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