



Photovoltaic Module

**GHT ELM-250M Series**

ELM-250M is designed specifically for on-grid residential systems where a combination of high efficiency and outstanding appearance is desirable. Utilizing 60 cells (156 x 156mm) configured in a 10 x 6 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 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 ELM-250M great appearance and less power decrease during warrant period.

MECHANICAL CHARACTERISTICS	
Dimensions(mm)	1641×982×50
Overall tolerances	±3mm
Weight(Kg)	19.0
Frame	Clear anodised aluminium alloy type 6063T6. Silver Universal frame
Solar Cells	60 cells (156 x 156mm) configured geometrically in a 10 x 6 matrix connected in series.

Test conditions: @STC 1000W/m<sup>2</sup>, AM1.5, 25°C  
 Product Standards: CE certified, TÜV according to IEC 61215 expected by Oct. 2007.

Module Diagram

TYPICAL ELECTRICAL CHARACTERISTICS					
	ELM-250M-1	ELM-250M-2	ELM-250M-3	ELM-250M-4	ELM-250M-5
Power	200W	210W	220W	230W	250W
Max. power voltage	28.8V	28.8V	29.1V	29.1V	29.4V
Max. power current	6.94A	7.29A	7.56A	7.90A	8.50A
Open circuit voltage	35.8V	35.8V	36.2V	36.2V	36.3V
Short circuit current	7.54A	7.92A	8.30A	8.68A	9.43A
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-250M-1	ELM-250M-2	ELM-250M-3	ELM-250M-4	ELM-250M-6
Power	200W	210W	220W	230W	250W
Power tolerance	±5%	±5%	±5%	±5%	±5%
Efficiency	13.7%	14.4%	15.1%	15.8%	17.1%
Rated voltage	24V	24V	24V	24V	24V
Warranty	Pm is not less than 90% in 10 years and 80% in 25 years				

Graph

