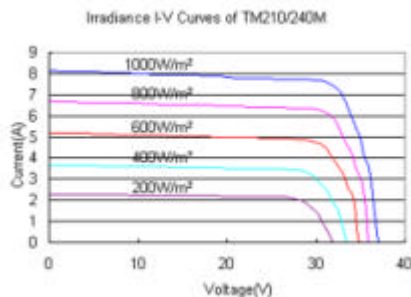
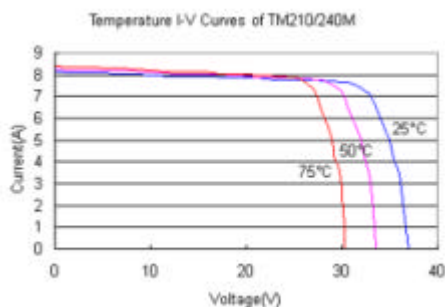


## Specifications of TM220/240M Photovoltaic Modules

### Characteristic curve at various irradiance levels



### Characteristic curve at various cell temperatures



### Typical Electrical Characteristics

### MONO CRISTALLINE SERIES

Model Number	TM220M	TM230M	TM240M
Rated Maximum Power (Pmax)	220W	230W	240W
Power Tolerance	+3% -0%	+3% -0%	+3% -0%
Maximum Power Voltage (Vmp)	29,8V	30,3V	30,8V
Maximum Power Current (Imp)	7,40A	7,60A	7,80A
Open Circuit Voltage (Voc)	36,8V	37,2V	37,6V
Short Circuit Current (Isc)	8,00A	8,20A	8,40A
Maximum System Voltage (VDC)	1000V		
Module Efficiency	13,4%	14,1%	14,7%
Solar Cell Type	60 cells (156 x 156 mm) in a 6 x 10 matrix connected in series		
Standard Test Condition	STC: AM=1.5, 1000W/m <sup>2</sup> , Cells Temperature 25°C		
Operating Temperature	-40°C ÷ +85°C		
Product Certifications	IEC 61215, IEC 61730 & CE		

### Mechanical Characteristics

Dimensions	1655 x 990 x 40 mm
Weight	19.6 kgs
Frame	Clear anodized aluminum alloy; Color: Silver

NOTE: modifications to technical data are possible without prior notice.

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