

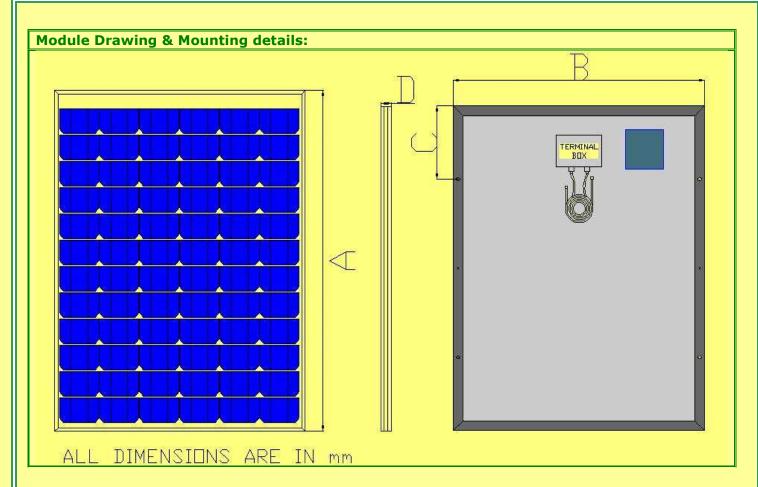
## MONO CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE

## **Andromeda Photovoltaic Modules**

- ★ Solar cells are encapsulated between tempered & textured clear glass with low iron content resulting in efficient sunlight absorption.
- ★ EVA potant with back sheet to provide maximum protection from the severest environmental conditions.
- ★ High torsion and corrosion resistant anodized aluminum frame provides structural strength and ease of installation.
- ★ Made with 3.2 mm thick glass. We recommend 4.0 mm glass for regions prone with snowfall or custom requirement.
- ★ Supplied with individual data sheet for each module.
- ★ Supplied with both IEC certifications 61215 on performance and 61730 on safety tested at 1000 V DC.
- ★ Produced in an ISO 9001: 2000 certified production facility.
- ★ 25 year limited warranty on Power output,
  - a) Output will be still 90 % in 10 years, based on rated module performance less the negative tolerance.
  - b) Output will be still 80 % in 25 years, based on the rated module performance less the negative tolerance.

Electrical Specifications - These values are effective at (Standard Test Conditions)					
MODEL	MM0160	MM0165	MM0170		
Rated POWER Pmax - [W]	160	165	170		
Rated Voltage Vmax - [V]	36.14	36.50	36.86		
Open Circuit Voltage Voc – [V]	43.13	43.27	43.62		
Short Circuit Current Isc - [A]	4.91	4.95	5.00		
Tolerance	± 3%				

Module IV-Curve	Temperature Coefficients
6 IV Curves	Voltage Voc: -0.34%/K Current Isc: +0.03%/K Power Pmax: -0.48%/K
9 3 - 160Wp	The product design is tested and certified to withstand 1000 V DC
1 -	Certifications
0 5 10 15 20 25 30 35 40 45  Volts	TÜVRheinland  TÜVRheinland  TÜVRheinland



Mechanical Specifications		
Length [mm]		A= 1230 ± 1
Width [mm]		$B = 990 \pm 1$
Thickness [mm]		D= 42
Mounting Position [mm]		C = 210
Weight [Kg]		14.3 (@3.2 mm thick glass)
No. of Solar cells		72 monocrystalline solar cells of size 94 ×156 mm
Certifications		IEC 61215 for Performance & IEC 61730 for Safety

Other Characteristics		
Front Glass	Toughened Clear Glass	
Glass thickness	3mm & 4mm for snow loading regions	
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)	
Back	A IEC/TÜV/CE certified product	
Frame	Anodized Aluminum frame	
Junction Box	A IEC/TÜV/CE certified product	

Due to continuous product improvement activities the specifications in this product information sheet are subjected to revision, without notice. Please visit our website for updated/latest product specifications.

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