

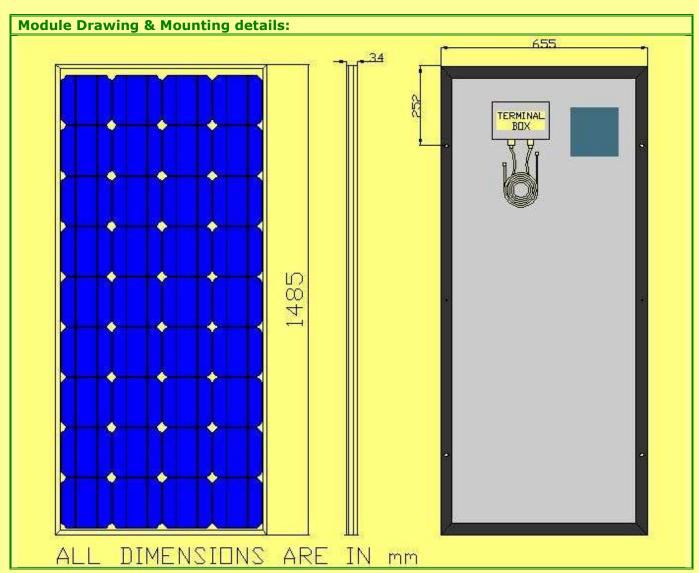
MONO CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE

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		MM0135	MM0140	MM0145		
Rated POWER Pmax - [W]		135	140	145		
Rated Voltage Vmax – [V]		18.07	18.32	18.65		
Open Circuit Voltage Voc – [V]		21.56	21.71	21.89		
Short Circuit Current Isc - [A]		8.18	8.29	8.38		
Tolerance		± 3%				

Module IV-Curve: Temperature Coefficients Voltage Voc: -0.34%/K 9 **IV Curves Current Isc:** +0.03%/K8 Power Pmax: -0.48%/K 7 6 140Wp The product design is tested and certified to 5 withstand 1000 V DC 4 3 Certifications 2 1 0 5 10 15 20 25 Volts



Mechanical Specifications			
Length [mm]		1485 ± 1	
Width [mm]		655 ± 1	
Thickness [mm]		34	
Weight [Kg]		11.2 (@3.2 mm thick glass)	
No. of Solar cells		36 monocrystalline solar cells of size 156×156 mm	
Certifications		IEC 61215 & IEC 61730 are due to issue in Nov'08	

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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