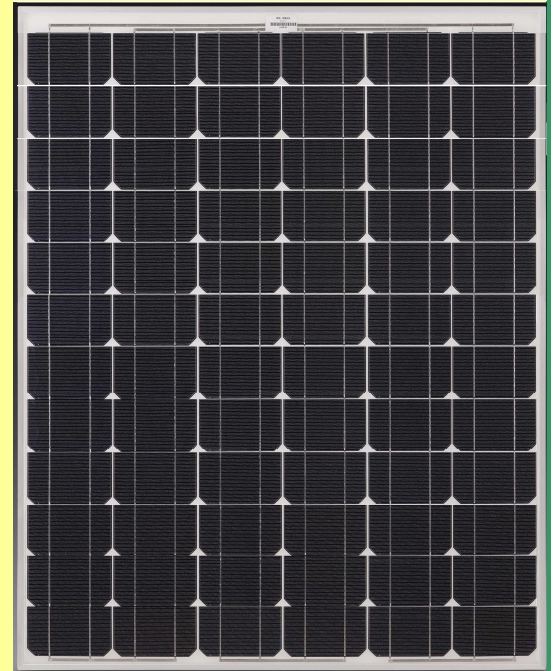


MONO CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE

Andromeda Photovoltaic Modules

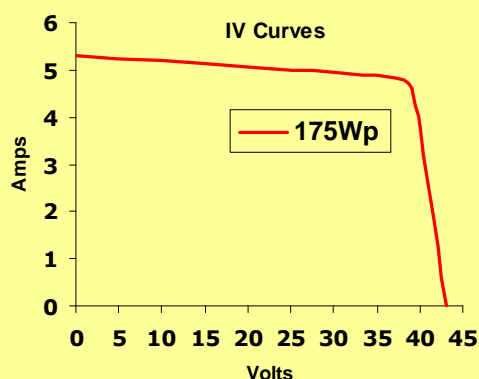
- ★ Solar cells are encapsulated between tempered & textured clear glass with low iron content resulting in efficient sunlight absorption.
- ★ EVA potant with back sheet to provide maximum protection from the severest environmental conditions.
- ★ High torsion and corrosion resistant anodized aluminum 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	MM0175	MM0180	MM0185
Rated POWER P_{max} – [W]	175	180	185
Rated Voltage V_{max} – [V]	36.14	36.50	36.86
Open Circuit Voltage V_{oc} – [V]	43.13	43.27	43.62
Short Circuit Current I_{sc} – [A]	5.32	5.36	5.42
Tolerance	± 3%		

Module IV-Curve



Temperature Coefficients

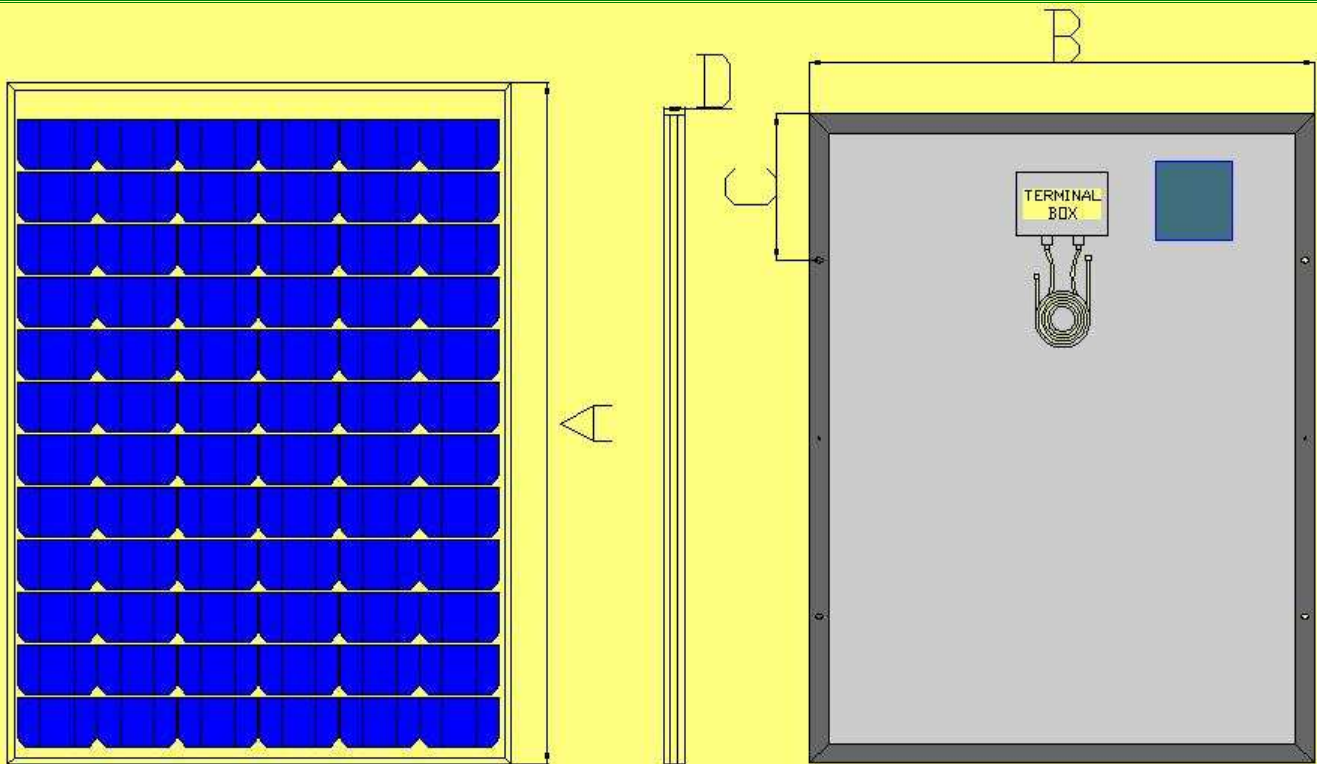
Voltage V_{oc}: -0.34%/K
Current I_{sc}: +0.03%/K
Power P_{max}: -0.48%/K

The product design is tested and certified to withstand 1000 V DC

Certifications



Module Drawing & Mounting details:



ALL DIMENSIONS ARE IN mm

Mechanical Specifications

Length [mm]	A = 1315 ± 1
Width [mm]	B = 990 ± 1
Thickness [mm]	D = 42
Mounting Position [mm]	C = 222.5
Weight [Kg]	15.3 (@3.2 mm thick glass)
No. of Solar cells	72 monocrystalline solar cells of size 101 × 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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