

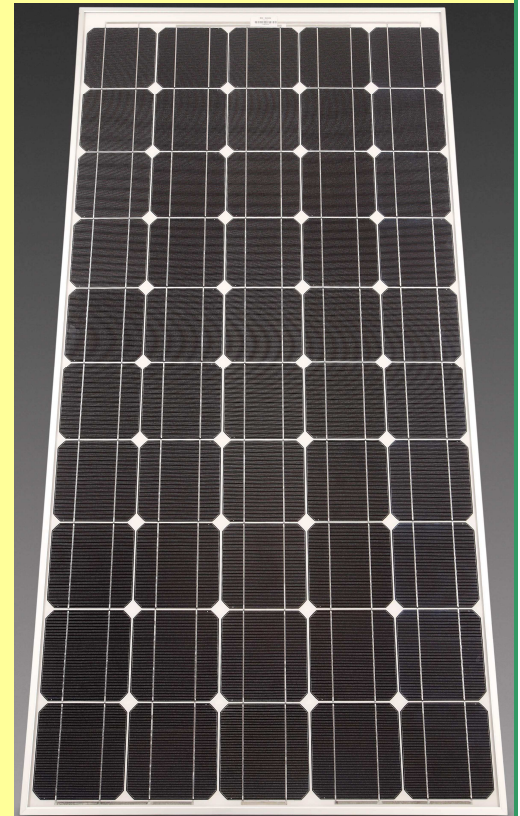


andromeda™

MONO CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE

Andromeda Photovoltaic Modules

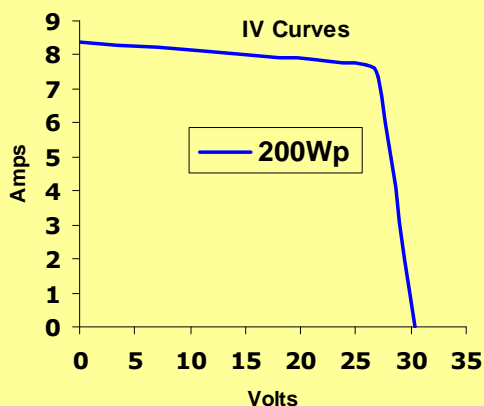
- ★ Tempered & textured clear glass with low iron content resulting in efficient sunlight absorption.
- ★ EVA potant with back sheet to provide maximum protection from the severest environmental conditions.
- ★ High torsion and corrosion resistant anodized aluminum frame provides structural strength 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		MM0190	MM0195	MM0200
Rated POWER Pmax – [W]		190	195	200
Rated Voltage Vmax – [V]		25.25	25.45	25.90
Open Circuit Voltage Voc – [V]		30.00	30.15	30.40
Short Circuit Current Isc – [A]		8.20	8.29	8.38
Tolerance		± 3%		

Module IV-Curve:

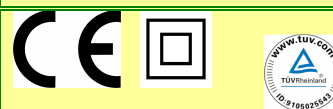


Temperature Coefficients

Voltage Voc: -0.34%/K
Current Isc: +0.03%/K
Power Pmax: -0.48%/K

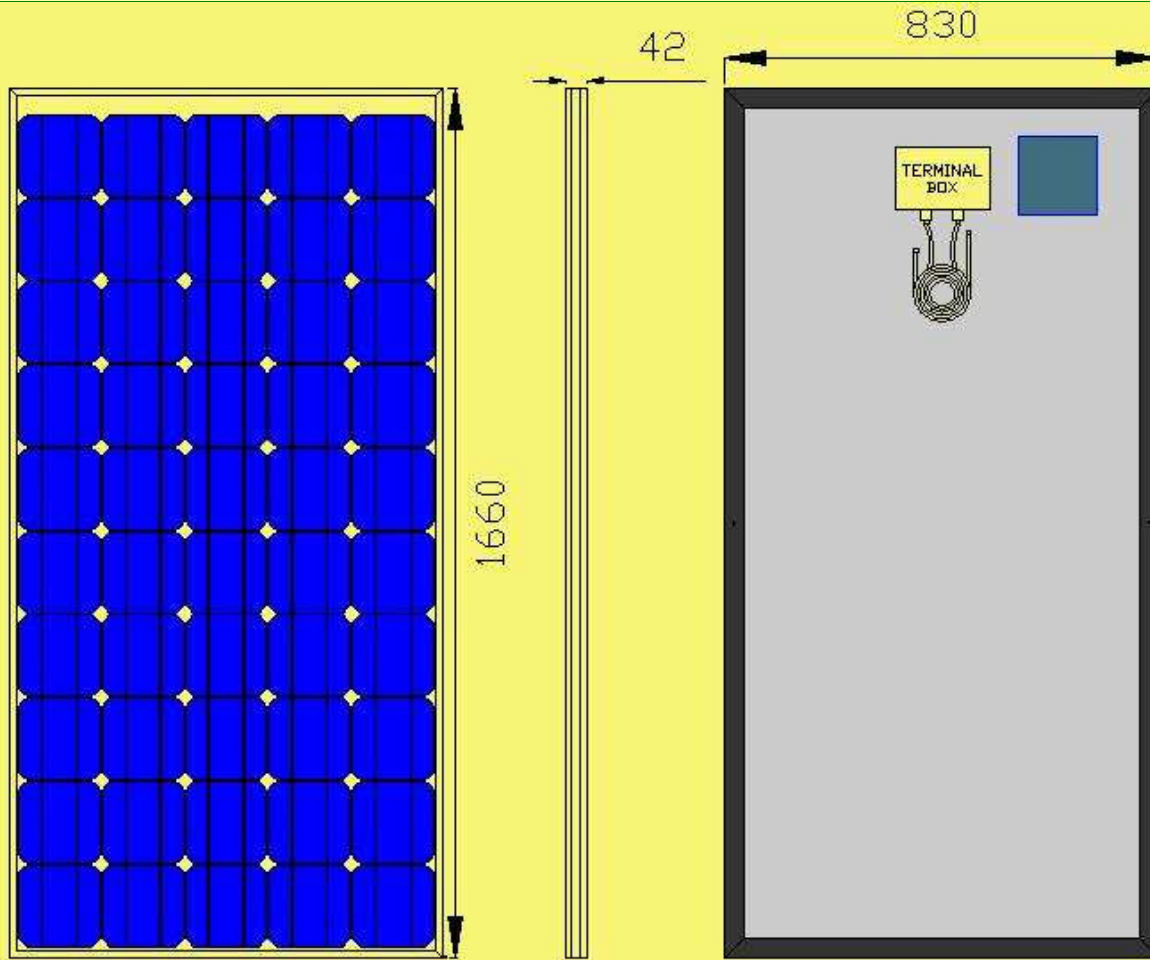
The product design is tested and certified to withstand 1000 V DC

Certifications



**IEC 61215 : 2005 & EN 61730-1 & -2 : 2007,
 Certificate No: 08-PPV-00045/01-TIC**

Module Drawing & Mounting details:



ALL DIMENSIONS ARE IN mm

Mechanical Specifications

Length [mm]	1660 ± 1
Width [mm]	830 ± 1
Thickness [mm]	42
Weight [Kg]	15.9 (@3.2 mm thick glass)
No. of Solar cells	50 monocrystalline solar cells of size 156×156 mm
Certifications	IEC 61215 for Performance & IEC 61730 for Safety, by TÜV(Inter-Cert)

Other Characteristics

Front Glass	Toughened Clear Glass
Glass thickness	3.2 mm for non snow loading & 4mm for snow loading regions
Cell Encapsulation	EVA (Ethylene Vinyl Acetate)
Back	IEC/TÜV/CE certified TPT / TPE
Frame	Anodized, Extruded Aluminum frame
Junction Box	Tyco or An Equivalent IEC/TÜV/CE certified product. With Quick Connect Cables

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.

ANDROMEDA ENERGY TECHNOLOGIES (P) LTD.

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