

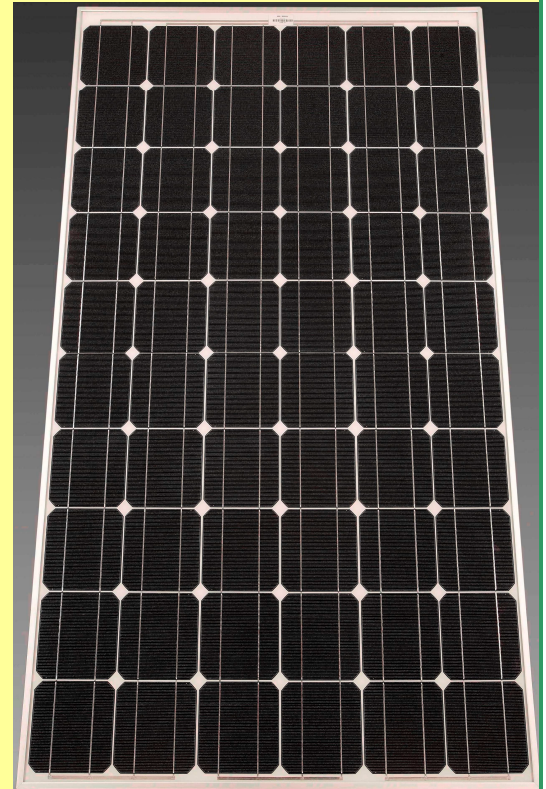


**andromeda™**

## MONO CRYSTALLINE SOLAR PHOTOVOLTAIC MODULE

### Andromeda Photovoltaic Modules

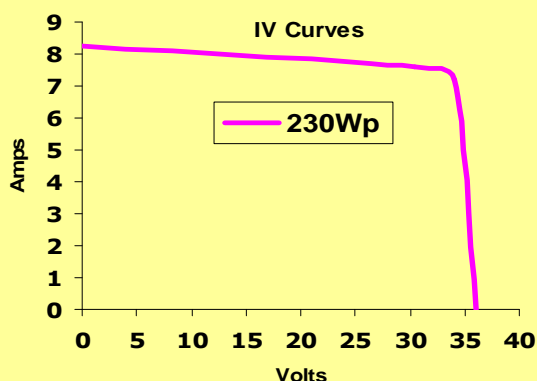
- ★ Tempered & textured clear glass with low iron content results in efficient sunlight absorption.
- ★ EVA potant with back sheet to provide maximum protection from the severest environmental conditions.
- ★ High torsion and corrosion resistant anodized aluminum frame provides structural strength and 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		MM0225	MM0230	MM0235	MM0240
Rated POWER	<b>Pmax - [W]</b>	225	230	235	240
Rated Voltage	<b>Vmax - [V]</b>	30.12	30.42	30.54	31.08
Open Circuit Voltage	<b>Voc - [V]</b>	35.94	36.06	36.18	36.48
Short Circuit Current	<b>Isc - [A]</b>	8.18	8.25	8.29	8.38
Tolerance		± 3%			

### Module IV-Curve:



### Temperature Coefficients

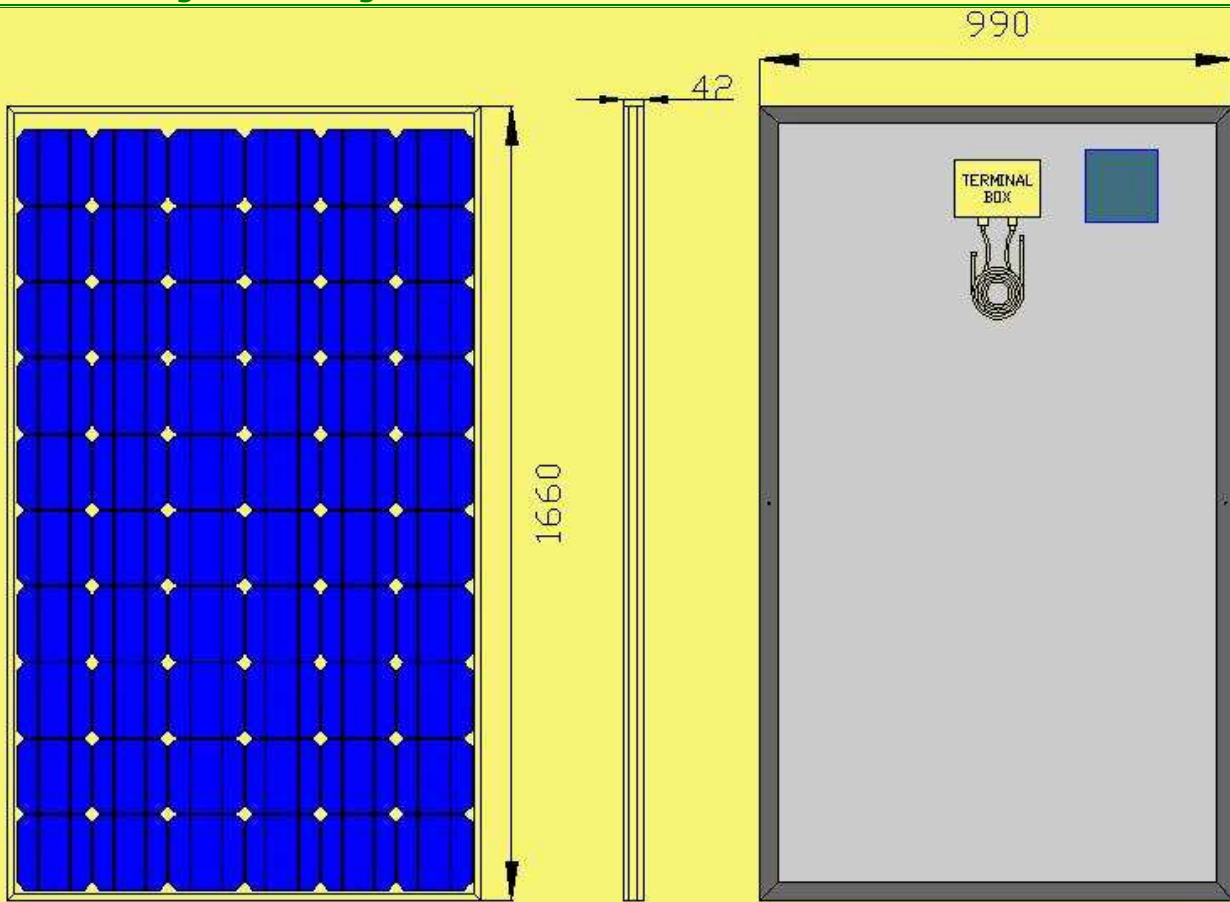
**Voltage Voc:** -0.34%/K  
**Current Isc:** +0.03%/K  
**Power Pmax:** -0.48%/K  
 The product design is tested and certified to withstand 1000 V DC

### 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]	990 ± 1
Thickness [mm]	42
Weight [Kg]	19.3 (@3.2 mm thick glass) / 22.5 (@4.0 mm thick glass)
No. of Solar cells	60 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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