

# 250W

## Poly-Crystalline Solar Module

The Solar Semiconductor's family of poly-crystalline 60 cells PV modules ranging from 225WP to 250WP. These modules employ 156 x 156 mm poly crystalline cells and are designed for grid connects as well as off-grid applications. Other custom modules may also be configured.

The 156 mm poly-crystalline cells lay embedded in transparent EVA, behind tempered glass. The glass is inset deep in the frame thereby ensuring maximum protection. The back of the module is sealed with a high-quality backsheet. The junction box has no hollow cavities, is water tight, and is resistant to temperature and UV radiation.

## KEY FEATURES

- Wide range of power with high Watt density
- By pass diodes to avoid effect of partial shading
- Anodized Aluminum alloy
- Frame and tempered glass for rugged protection in hostile environments.
- Manufactured in a state-of-the-art, automated production facility.

## MODULE FAMILY

- 60 cell modules with 2-Busbar and 3-Busbar

# SOLAR

## SEMICONDUCTOR

THE LEADER IN SOLAR ENERGY  
SOLUTIONS, PRODUCTS & SERVICES



### HIGH EFFICIENCY

Modules contains high efficiency 2BB/3BB polycrystalline solar cells



### QUALITY

At SSI, quality is not an afterthought; it is designed into our modules and is ensured by automated production with minimal manual intervention.

Each and every module is thoroughly tested for performance.



### CERTIFICATIONS

Certifications to ensure product safety and performance are provided and all modules are backed by a twenty-five year industry leading warranty.

## QUALITY & SAFETY

- IEC 61215, IEC 61730, IEC 61701 and CE certified
- UL 1703 certified
- CEC listed
- ISO:9001:2008 Certified Manufacturing Facility.

## WARRANTY INFORMATION

### • PRODUCT WARRANTY

5 years

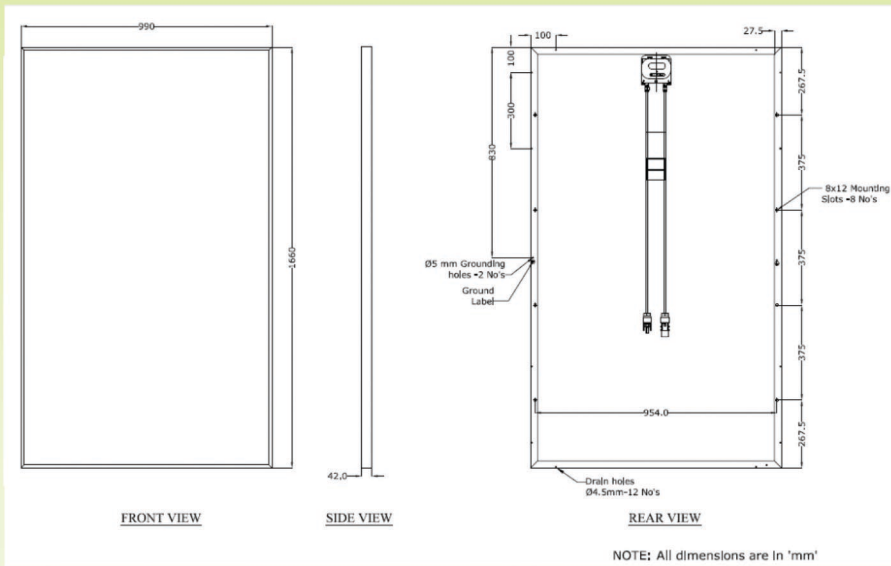
### • POWER WARRANTY

90% of minimum rated power till end of first 10 years

80% of minimum rated power till end of next 15 years

### Performance under Standard Test Conditions (1000W/m<sup>2</sup>, AM 1.5, 25°C)

	SSI-M6-225	SSI-M6-230	SSI-M6-235	SSI-M6-240	SSI-M6-245	SSI-M6-250
	SSI-3M6-225	SSI-3M6-230	SSI-3M6-235	SSI-3M6-240	SSI-3M6-245	SSI-3M6-250
Peak Power (P <sub>max</sub> ,W)	225	230	235	240	245	250
Binning (Wp)	-2, +3	-2, +3	-2, +3	-2, +3	-2, +3	-2, +3
Measurement Tolerance (%)	+3	+3	+3	+3	+3	+3
Max Power Voltage (V <sub>mp</sub> )	28.85	29.23	29.56	30.06	30.45	30.69
Max Power Current (I <sub>mp</sub> )	7.82	7.88	7.95	8.01	8.05	8.15
Open Circuit Voltage (V <sub>oc</sub> )	36.24	36.54	36.90	37.20	37.50	37.98
Short Circuit Current (I <sub>sc</sub> )	8.32	8.38	8.46	8.52	8.56	8.67
Module Efficiency (%)	13.69	14.00	14.30	14.60	14.91	15.21



### Physical Parameters

No. of Cells	60
Module Dimensions (mm)	1660 X 990
Module Thickness (mm)	42
Approximate Weight (Kgs)	20

### 60 Cell Solar PV Module Dimensions

#### Operating Conditions

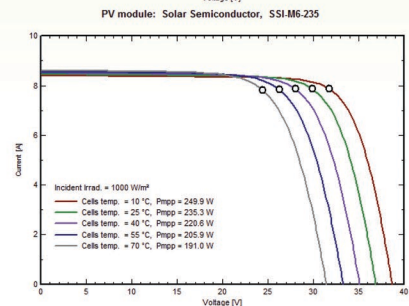
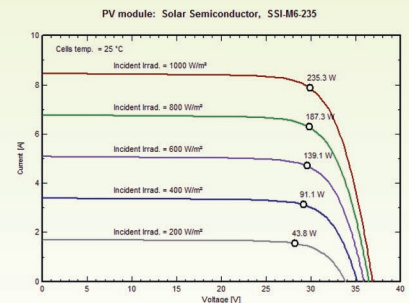
Ambient Temperature (°C)	-40 to +90
Maximum System Voltage (VDC)	600 (US), 1000 (EU)
Hail (23mm Ø) Impact Velocity (M/Sec)	23
Snow load factor	5400Pa

#### Cell Temperature Coefficients

Open Circuit Voltage	-0.36 % / °C
Short Circuit Current	+0.06 % / °C
Nominal Power	-0.43 % / °C

#### Mechanical Characteristics

Cable	No. 12 AWG, 4 mm <sup>2</sup>
PV Connectors	MC4/MC3/Tyco/Bizlink
Frame	Silver Anodized Aluminum Alloy
Junction Box	IP65 Junction box with, 4 terminals
Glass	3.2 mm thick low iron tempered



Solar Semiconductor is a pioneer in offering innovative solutions that leverage Sun's energy to address various demands for electricity. With offices in USA, Canada, Dubai and manufacturing operations in Hyderabad, India, Solar Semiconductor is an international organization that offers PV solutions, products and services to worldwide markets including the Americas, Europe, Asia and Africa.



**USA**  
4633 Old Ironsides Dr  
Suite # 310, Santa Clara,  
CA 95054, USA  
Phone: +1 408 567 9119  
Fax: +1 408 567 9122

**INDIA**  
Corporate Office & Manufacturing Facility  
FAB City, Survey # 114/P  
Srinagar Village, Maheshwaram Mandal  
RR Dist 501359, Andhra Pradesh  
Phone: + 91 40 67303000  
Fax: +91 40 673033003



Website: [www.solarsemiconductor.com](http://www.solarsemiconductor.com)  
Email: [sales@solarsemiconductor.com](mailto:sales@solarsemiconductor.com)