



### KEY FEATURES

**Solar Cells:** high efficiency solar cells ensure high performance of the solar module and create maximum power output. PID FREE.

**Front and Back:** High-transmission (over 95%)2.5mm tempered glass.

**Aluminum Frame:** screw-less corner joints provide superior rigidity, ten predrilled mounting holes ease installation.

**Superior Junction Box:** Multi function junction box with water proof capabilities.

Under 10% decrease of output power within 10 years and 20% decrease in 25 years.

Tolerance: 0~+2%.

High impact resistance affords superior performance during severe weather-high wind, driving rain, heavy snow and hail.

Moisture proof and corrosion-resistant.

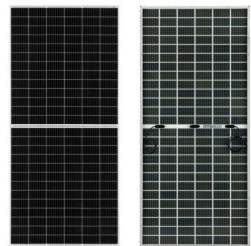
Widely used in various electric appliances and instruments in the area, such as grid net,home power system, telecommunications,illumination,transportation

## Mono Bifacial Solar Module (Double Glass)

**Mono 156 Half Cells** (182mm cells)

### Allesun-(570-590)-78IIMBG

Allesun's photovoltaic modules are designed for large-scale electrical power requirements, with a 25 years warranty, offers high-power and reliable performance for solar projects, both on and off-grid. Comprehensive LID/LeTID Mitigation, up to 50% down degradation.



### PRODUCT CERTIFICATES



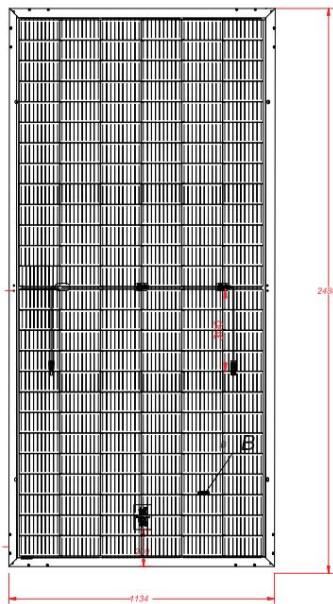
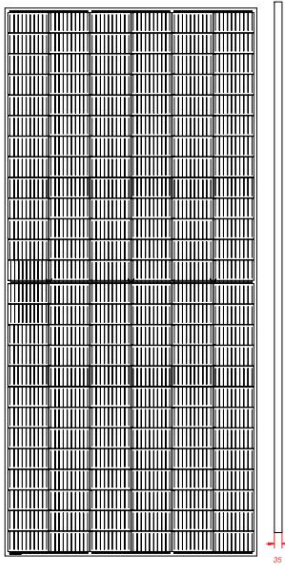
Linear Power output warranty

25  
YEARS

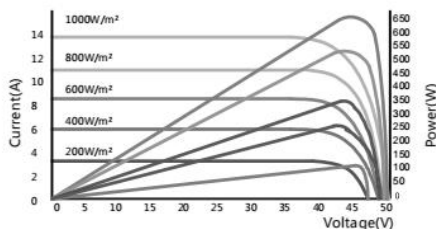
Product warranty on materials and workmanship

10  
YEARS

## DIMENSION OF PV MODULE



### IV-Curves



### Electrical Characteristics

STANDARD TEST CONDITIONS: IRRADIANCE: 1000W/M<sup>2</sup> AM: 1.5 TEMPERATURE: 25°C

Maximum Power (Pmax)	570W	575W	580W	585W	590W
Maximum Power Voltage (Vmp)	44.68	44.82	44.97	45.11	45.25
Maximum Power Current (Imp)	12.76	12.83	12.90	12.97	13.04
Open Circuit Voltage (Voc)	53.30	53.44	53.59	53.73	53.87
Short Circuit Current (Isc)	13.65	13.72	13.79	13.86	13.93
Module Efficiency (%)	20.27	20.45	20.62	20.80	20.98

### Temperature Coefficients

Temperature Coefficients of Pm	-0.360%/°C
Temperature Coefficients of Voc	-0.280%/°C
Temperature Coefficients of Isc	+0.05%/°C

### Max. Limits

Maximum System Voltage	1500V
Module Operating Temperature	-40°C to +85°C
Noct	45°C±2 °C

### Mechanical Characteristics

Cell Technology and size	182mmx91mm Mono-crystal silicon
Number of Cells (pcs)	78*2 pcs
Dimensions	2480x1134x35mm
Weight	33.0kgs
Frame	Anodized Aluminum Alloy
Length of Cables (mm)	4mm <sup>2</sup> , cable length can be customized
Allowable Hail Load	227g steel ball dropped from 1m height
Surface Maximum Load Capacity	1600pa

### Packaging configuration

Modules per pallet	32pcs
Modules per 40HQ container	569pcs

Toll free: 1 888 273 2188

E- mail: [sales@allesun.com](mailto:sales@allesun.com)

Website: [www.allesun.com](http://www.allesun.com)