



### KEY FEATURES

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

**Front:** 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 144 Half Cells** (182mm cells)

### Allesun-(530-540)-72HMBG

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



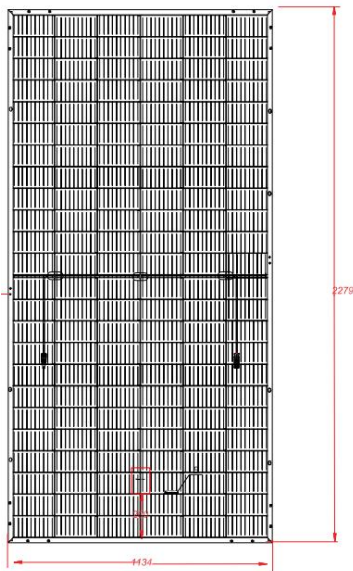
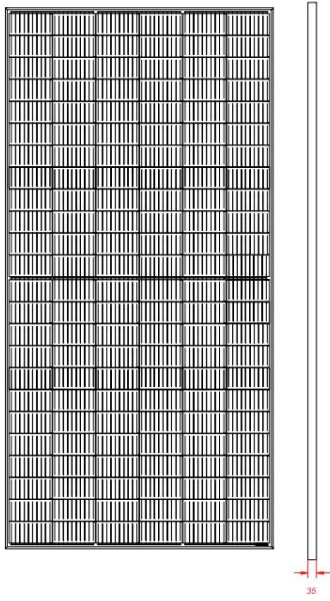
Linear Power output warranty

25  
YEARS

Product warranty on materials and workmanship

10  
YEARS

# DIMENSION OF PV MODULE



## Electrical Characteristics

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

|                             |       |       |       |
|-----------------------------|-------|-------|-------|
| Maximum Power (Pmax)        | 530W  | 535W  | 540W  |
| Maximum Power Voltage (Vmp) | 40.80 | 41.00 | 41.20 |
| Maximum Power Current (Imp) | 13.00 | 13.05 | 13.11 |
| Open Circuit Voltage (Voc)  | 49.00 | 49.20 | 49.40 |
| Short Circuit Current (Isc) | 13.76 | 13.81 | 13.87 |
| Module Efficiency (%)       | 20.51 | 20.70 | 20.90 |

## 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    |

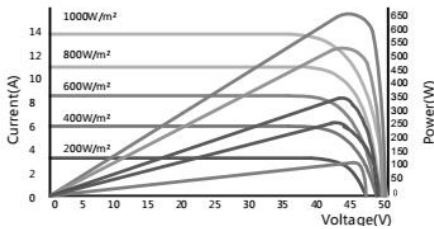
## Mechanical Characteristics

|                               |   |
|-------------------------------|---|
| Cell Technology and size      | 182mmx91mm Mono-crystal silicon                   |
| Number of Cells (pcs)         | 72*2 pcs  |
| Dimensions                    | 2279x1134x35mm                                    |
| Weight                        | 32.5kgs   |
| 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 | 640pcs |

## IV-Curves



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