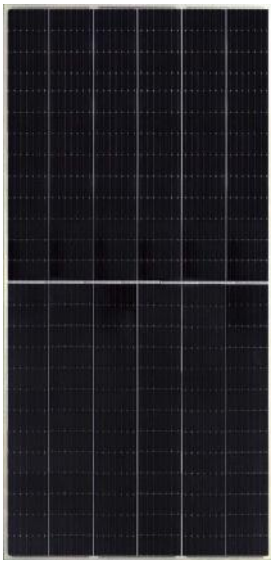
# 445W

SQUARE MONO PAVING MODULE

IEC61215 / IEC61730 / IEC61701 /
IEC62716 /IEC62804



## High output power

The monolithic perc cell structure technology (low resistance characteristics) is adopted. The maximum output power of 78 cells mono crystalline is up to 455w ( the maximum conversion efficiency of modules is up to 21.12%);

## 7BB PV cell

More uniform current collection ability, which reduces the current loss of the battery inside the module;

## Connection of triangular welding belt

The utilization rate of incident light irradiated on the triangle welding belt is over 90%. The triangle welding belt has a visual invisible effect, and the solar PV module looks more beautiful;

## 1500V system voltage

1500V dc voltage of the system, reducing the cost of the system side;

## Super strong frame

The overflow tank is waterproof with double layers, and the cross section contains hooked aluminum frame, which enhances the mechanical load strength by 10%;

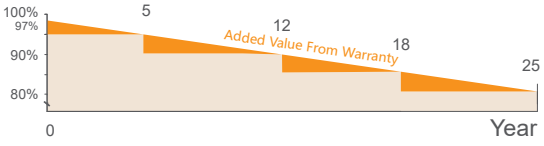
## Strong mechanical load capacity

Passed the certification test of 5400pa snow pressure and 2400pa wind pressure load;

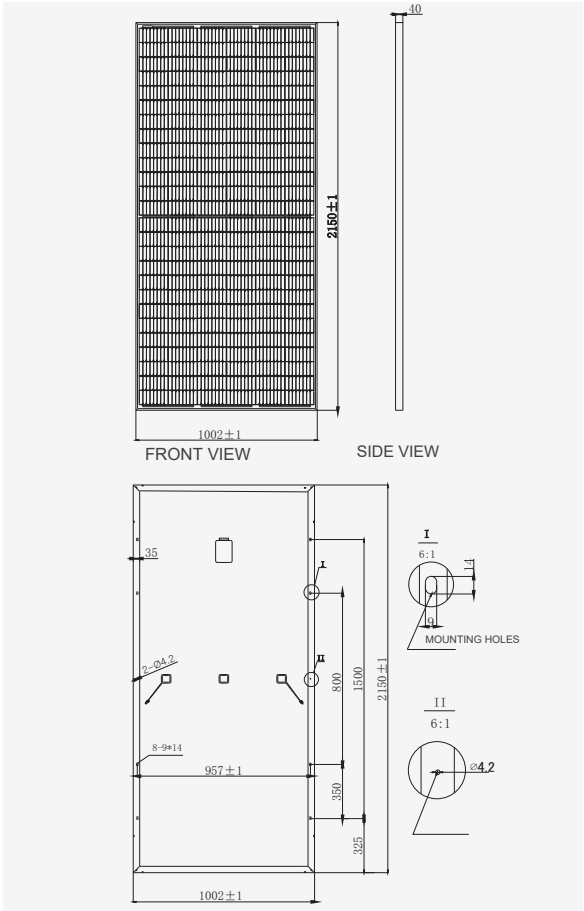
## QUALIFICATIONS AND CERTIFICATES

## LINEAR PERFORMANCE WARRANTY

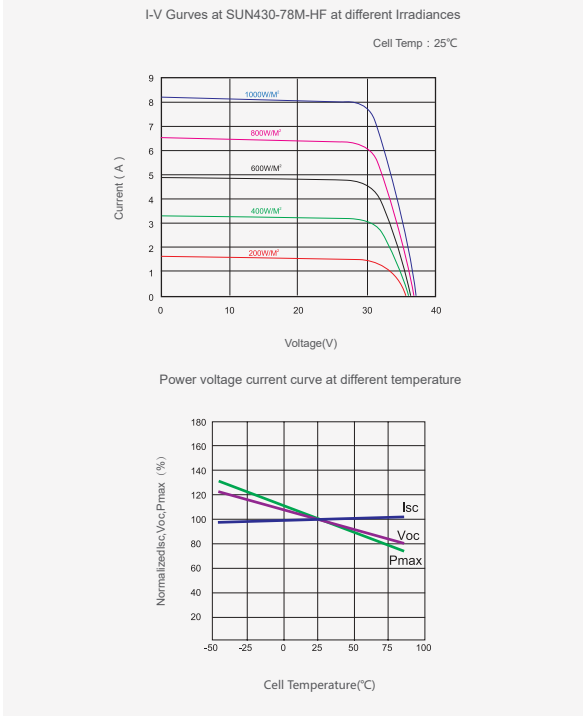
- 12 Years Manufacturing Warranty
- 12 Years 90% Power Output
- 25 Years 80% Power Output



## MECHANICAL DRAWINGS




## I-V CURVES




## MECHANICAL SPECIFICATION

| | |
|---|---|
| Cell Type | Mono Crystalline (PERC) 158.75x158.75mm |
| Number Of Cells | 156（6x26） |
| Dimensions(AxBxC) | 2150x1002x40mm |
| Weights | 24.5kg |
| Front Glass | 3.2mm Tempered Low Iron Glass |
| Frame | Anodised Aluminium |
| Junction Box | Split Junction Box (IP67 ,three diode) |
| Connector | Mc4 Compatible |
| Output Cables | 4.0mm²,+300mm,-300mm Customized Length |

## ELECTRICAL CHARACTERISTICS

| | |
|---|---|
| Maximum Power At STC(Pmax) | **445W** |
| Short Circuit Current(Isc) | 10.64A |
| Open Circuit Voltage(Voc) | 54.1V |
| Maximum Power Current(Impp) | 10.09A |
| Maximum Power Voltage(Vmpp) | 44.1V |
| Module Efficiency | 20.66% |
| Power Tolerance | 0~+3% |

STC: 1000W/m2 irradiance, 25°C cell temperature, AM1.5.

## NOCT

| | |
|---|---|
| Maximum Power At STC(Pmax) | 334.5 |
| Short Circuit Current(Isc) | 8.61 |
| Open Circuit Voltage(Voc) | 50.5 |
| Maximum Power Current(Impp) | 8.17 |
| Maximum Power Voltage(Vmpp) | 41.0 |

NOCT: Irradiance at 800W/m² , Ambient Temperature 20°C , wind speed 1m/s .

## SYSTEM INTEGRATION PARAMETERS

| | |
|---|---|
| Maximum System Voltage | VDC 1500V |
| Maximum Series Fuse | 15A |
| Increased Snowload Acc.to Iec 61215 | 5400Pa |
| Operating Temperature | -40~+85℃ |
| Number Of Bypass Diodes | 3 |

## TEMPERATURE CHARACTERISTICS

| | |
|---|---|
| Norminal Operating Cell Temperature(Noct) | 45℃±2℃ |
| Temperature Coefficient Of Pmax | -0.36%℃ |
| Temperature Coefficient Of Voc | -0.29%℃ |
| Temperature Coefficient Of Lsc | 0.05%℃ |

## PACKING CONFIGURATION

| | |
|---|---|
| Container | 40′ GP |
| Pieces Per Pallet | 27 |
| Pallets Per Container | 20 |
| Pieces Per Container | 548 |