

# SUN 72M-HF

## 390W/395W/400W/ 405W

SQUARE-MONO PAVING  
MODULE

IEC61215 / IEC61730 / IEC61701 /  
IEC62716 / IEC62804

Power  
Space  
Technology



### High output power



The monolithic perc cell structure technology (low resistance characteristic) is adopted. The maximum output power of 72 cells mono crystalline is up to 405w ( the maximum conversion efficiency of modules is up to 20.31%);

### 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;

### LINEAR PERFORMANCE WARRANTY

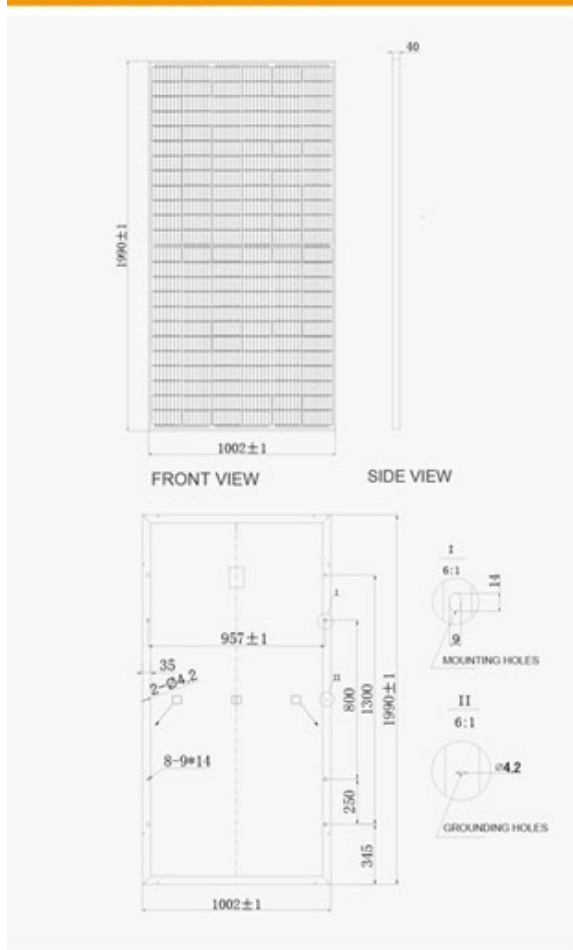
- 12 Years Manufacturing Warranty
- 12 Years 90% Power Output
- 25 Years 80% Power Output



### QUALIFICATIONS AND CERTIFICATES



## MECHANICAL DRAWINGS



## MECHANICAL SPECIFICATION

Cell Type	Mono Crystalline 158.75x158.75mm
Number Of Cells	144 (6x12)
Dimensions(AxBxC)	1990x1002x40mm
Weights	23.5kg
Glass	3.2mm Tempered Low Iron Glass
Aluminium Frame	Anodised Aluminium
Junction Box	Split Junction Box (IP67 ,three diode)
Connector	Mc4 Compatible
Output Cables	4.0mm <sup>2</sup> , +300mm, -300mm Customized Length

## ELECTRICAL CHARACTERISTICS

Maximum Power At STC(Pmax)	390W	395W	400W	405W
Short Circuit Current(Isc)	10.14A	10.24A	10.31A	10.40A
Open Circuit Voltage(Voc)	49.2V	49.4V	49.7V	49.9V
Maximum Power Current(Imp)	9.68A	9.78A	9.85A	9.93A
Maximum Power Voltage(Vmpp)	40.3V	40.4V	40.6V	40.8V
Module Efficiency	19.56%	19.81%	20.06%	20.31%
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%

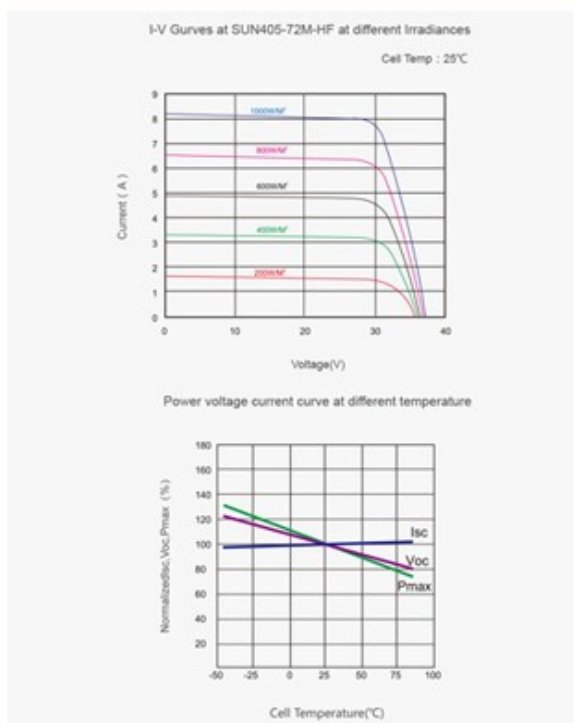
STC: 1000W/m<sup>2</sup> irradiance, 25°C cell temperature, AM1.5.

## NOCT

Maximum Power At STC(Pmax)	293.2	296.9	300.7	304.4
Short Circuit Current(Isc)	8.21	8.29	8.35	8.42
Open Circuit Voltage(Voc)	45.9	46.1	46.3	46.5
Maximum Power Current(Imp)	7.78	7.86	7.91	7.98
Maximum Power Voltage(Vmpp)	37.7	37.8	38.0	38.1

NOCT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, wind speed 1m/s.

## I-V CURVES



## SYSTEM INTEGRATION PARAMETERS

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

## TEMPERATURE CHARACTERISTICS

Norminal Operating Cell Temperature(Noct)	45°C±2°C
Temperature Coefficient Of Pmax	-0.36%/°C
Temperature Coefficient Of Voc	-0.29%/°C
Temperature Coefficient Of Isc	0.05%/°C

## PACKING CONFIGURATION

Container	40' HQ
Pieces Per Pallet	27
Pallets Per Container	22
Pieces Per Container	594