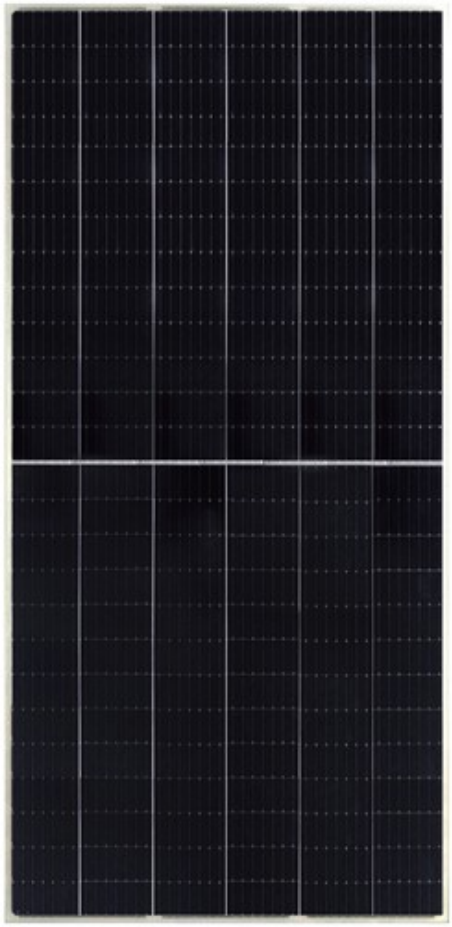
SUN 78M-HF

425W/430W/435W/440W

SQUARE-MONO PAVING MODULE

IEC61215 / IEC61730 / IEC61701 / IEC62716 /IEC62804

Power
Space
Technology



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 t 440w (the maximum conversion efficiency of modules is up to 20.42%);

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

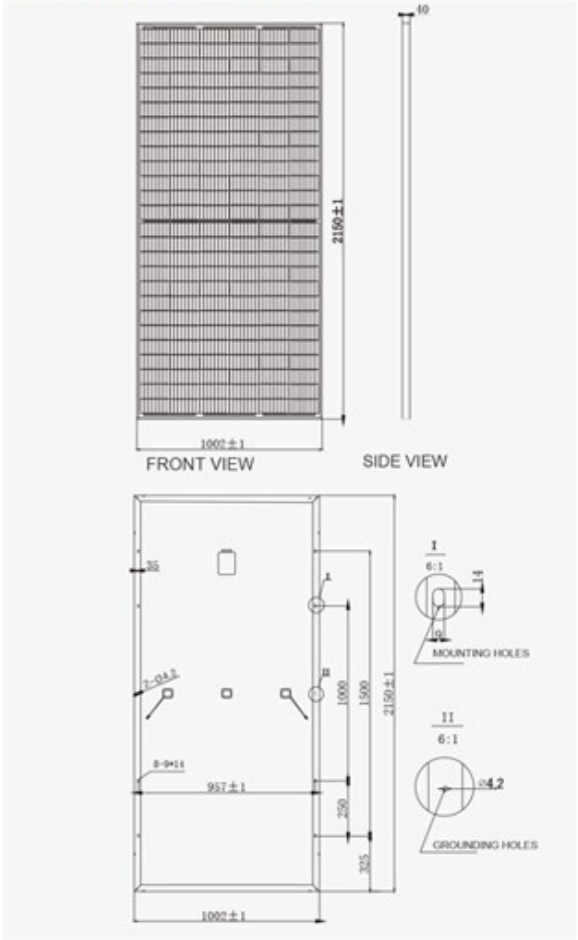
Passed the certification test of 5400pa snow pressure and 2400pa wind pressure load;

LINEAR PERFORMANCE WARRANTY

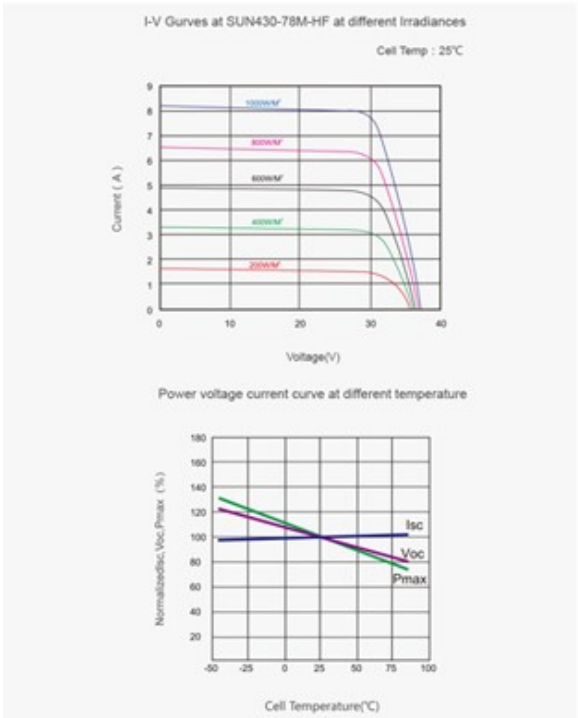
- 12 Years Manufacturing Warranty
- 12 Years 90% Power Output
- 25 Years 80% Power Output

QUALIFICATIONS AND CERTIFICATES

MECHANICAL DRAWINGS



I-V CURVES



MECHANICAL SPECIFICATION

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

ELECTRICAL CHARACTERISTICS

Maximum Power At STC(Pmax)	425W	430W	435W	440W
Short Circuit Current(Isc)	10.28A	10.40A	10.48A	10.57A
Open Circuit Voltage(Voc)	52.9V	53.2V	53.5V	53.8V
Maximum Power Current(Impp)	9.79A	9.86A	9.93A	10.02A
Maximum Power Voltage(Vmpp)	43.4V	43.6V	43.8V	43.9V
Module Efficiency	19.73%	19.96%	20.19%	20.42%
Power Tolerance	0~+3%	0~+3%	0~+3%	0~+3%

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

NOCT

Maximum Power At STC(Pmax)	319.5	323.2	327.0	330.7
Short Circuit Current(Isc)	8.32	8.42	8.48	8.56
Open Circuit Voltage(Voc)	49.3	49.6	49.9	50.2
Maximum Power Current(Impp)	7.89	7.98	8.04	8.11
Maximum Power Voltage(Vmpp)	40.5	40.5	40.7	40.8

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' HQ
Pieces Per Pallet	27
Pallets Per Container	20
Pieces Per Container	540