



## Hitouch<sup>5N</sup>

### HN18N-72HT

## 570-595W

### BIFACIAL

High Efficiency Module

### 23.0%

Maximum Efficiency



#### Long-Term Reliability

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal).

Excellent anti-PID performance to guarantee a better sustainability in harsh environment.



#### Lower Hot Spot and Crack Risk

Reduce hot-spot risk with optimized electrical design and lower operating current.

Reduce crack risk by MBB solar cell design.



#### Higher Power Output

Higher module conversion efficiency benefit from bigger wafer and half-cell structure.

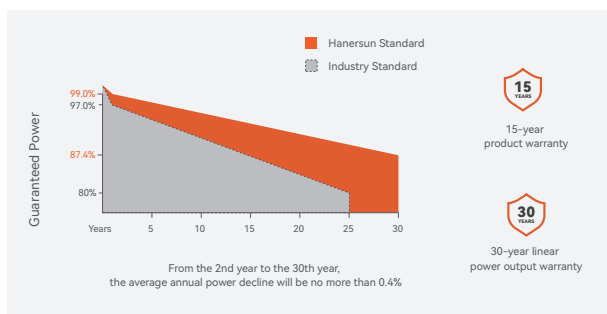
MBB technology enhances current collection with lower series resistance.



#### Excellent Temperature Coefficient

Lower operating temperature and temperature coefficient increases the power output.

### Power Warranty



### Certificates



### Insurance

Munich RE



### About Hanersun

Hanersun is a world-leading clean energy company, with a business scope from the R&D and intelligent manufacturing of solar modules, energy storage products, to comprehensive energy solutions.

## Electrical Characteristics (STC)

| Module Type                 | HN18N-72HT570W | HN18N-72HT575W | HN18N-72HT580W | HN18N-72HT585W | HN18N-72HT590W | HN18N-72HT595W |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Maximum Power (Pmax)        | 570            | 575            | 580            | 585            | 590            | 595            |
| Maximum Power Voltage (Vmp) | 42.80          | 43.00          | 43.20          | 43.40          | 43.60          | 43.80          |
| Maximum Power Current (Imp) | 13.32          | 13.38          | 13.43          | 13.48          | 13.54          | 13.59          |
| Open-circuit Voltage (Voc)  | 51.00          | 51.20          | 51.40          | 51.60          | 51.80          | 52.00          |
| Short-circuit Current (Isc) | 14.11          | 14.17          | 14.23          | 14.29          | 14.35          | 14.41          |
| Module Efficiency(%)        | 22.1%          | 22.3%          | 22.5%          | 22.6%          | 22.8%          | 23.0%          |

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.

Power Tolerance: 0~+3%

## Electrical Characteristics (BNPI)

| Module Type                 | 570W  | 575W  | 580W  | 585W  | 590W  | 595W  |
|-----------------------------|-------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax)        | 632   | 637   | 643   | 648   | 654   | 659   |
| Maximum Power Voltage (Vmp) | 42.80 | 43.00 | 43.20 | 43.40 | 43.60 | 43.80 |
| Maximum Power Current (Imp) | 14.77 | 14.82 | 14.89 | 14.94 | 15.00 | 15.05 |
| Open-circuit Voltage (Voc)  | 51.00 | 51.20 | 51.40 | 51.60 | 51.80 | 52.00 |
| Short-circuit Current (Isc) | 15.63 | 15.70 | 15.77 | 15.83 | 15.90 | 15.97 |

BNPI: Irradiance: Front 1000W/m<sup>2</sup>, Rear 135W/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5

## Mechanical Parameters

|                   |                               |              |                               |
|-------------------|-------------------------------|--------------|-------------------------------|
| Solar Cells       | N-TYPE Monocrystalline(182mm) | No. of Cells | 144 [2 x (12 x 6) ]           |
| Module Dimensions | 2278*1134*30mm                | Weight       | 32.5kg                        |
| Glass             | 2mm-2mm                       | J-Box        | IP68                          |
| Frame             | Anodized Aluminium Alloy      | Connector    | MC4-EVO 2A/Z4S-abcd/Others    |
| Output Cable      | 4.0mm <sup>2</sup>            | Cable Length | 300/300mm (can be customized) |

## Operating Parameters

|                            |                |
|----------------------------|----------------|
| Operational Temperature    | -40°C~+85°C    |
| Maximum System Voltage     | 1500V DC (IEC) |
| Maximum Series Fuse Rating | 30A            |
| Bifacility                 | 80±5%          |
| Fire Class Rating          | Class C        |

## Temperature Ratings

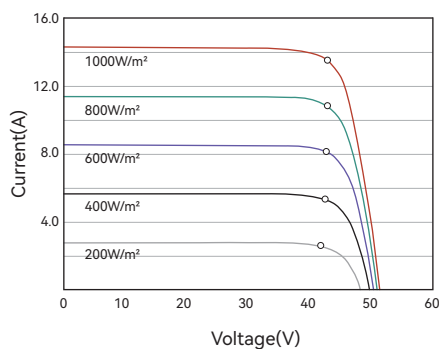
|                                 |            |
|---------------------------------|------------|
| Temperature Coefficient of Pmax | -0.28%/°C  |
| Temperature Coefficient of Voc  | -0.23%/°C  |
| Temperature Coefficient of Isc  | +0.045%/°C |

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

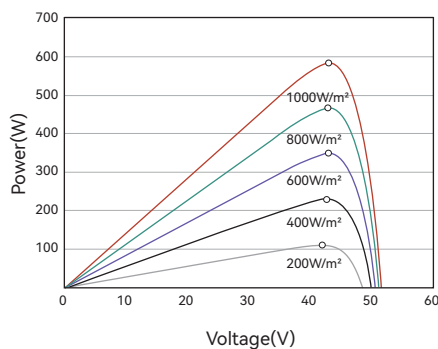
## Packaging

|                    |                     |
|--------------------|---------------------|
| Pcs per Pallet: 37 | Pcs per 40' HC: 740 |
|--------------------|---------------------|

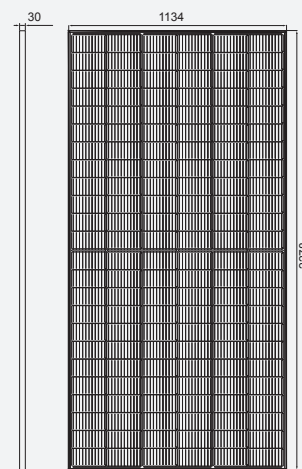
## I-V Curves of PV Module (580W)



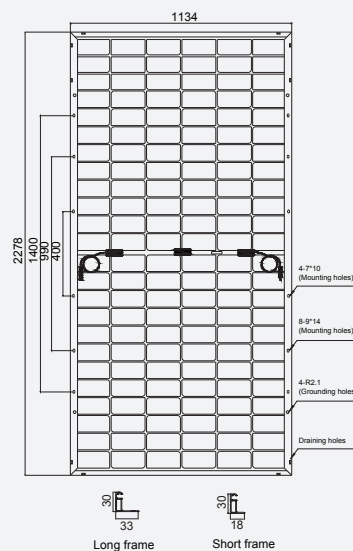
## P-V Curves of PV Module (580W)



## Dimensions (Unit: mm)



Front View



Back View