

## TOPCon

High Efficiency Module

22.8%

Maximum Efficiency

15 YEARS

Product Warranty

## Hitouch 5N

HN18N-72H

570-590W



## 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.



## 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.

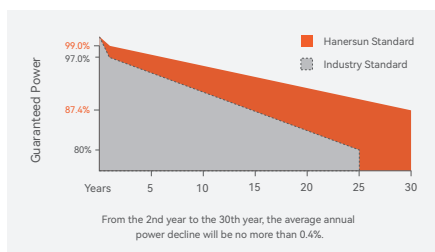


## Lower Hot Spot and Crack Risk

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

Reduce crack risk by MBB solar cell design.

## Power Warranty



15-year product warranty



30-year linear power output warranty

## Insurance

Munich RE 

## Certificates



## About Hanersun

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

Electrical Characteristics

| Module Type                 | HN18N-72H570W |       | HN18N-72H575W |       | HN18N-72H580W |       | HN18N-72H585W |       | HN18N-72H590W |       |
|-----------------------------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|
| Testing Condition           | STC           | NMOT  | STC           | NMOT  | STC           | NMOT  | STC           | NMOT  | STC           | NMOT  |
| Maximum Power (Pmax)        | 570           | 432   | 575           | 436   | 580           | 440   | 585           | 445   | 590           | 449   |
| Maximum Power Voltage (Vmp) | 42.80         | 40.20 | 43.00         | 40.40 | 43.20         | 40.60 | 43.40         | 40.80 | 43.60         | 41.00 |
| Maximum Power Current (Imp) | 13.32         | 10.74 | 13.38         | 10.79 | 13.43         | 10.84 | 13.48         | 10.91 | 13.54         | 10.96 |
| Open-circuit Voltage (Voc)  | 51.00         | 48.70 | 51.20         | 48.90 | 51.40         | 49.10 | 51.60         | 49.30 | 51.80         | 49.50 |
| Short-circuit Current (Isc) | 14.11         | 11.38 | 14.17         | 11.42 | 14.23         | 11.47 | 14.29         | 11.53 | 14.35         | 11.59 |
| Module Efficiency(%)        | 22.1%         |       | 22.3%         |       | 22.5%         |       | 22.6%         |       | 22.8%         |       |

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.  
\*Measuring tolerance: 0 ~ +5W

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Mechanical Parameters

|                       |   |
|-----------------------|---|
| Solar Cells           | Monocrystalline (182mm)                                     |
| No. of Cells          | 144 [2 x (12 x 6) ]   |
| Module Dimensions     | 2278*1134*30mm  |
| Weight                | 28.5kg  |
| Glass                 | 3.2mm, High Transmission, AR Coated Heat Strengthened Glass |
| Encapsulant Material  | EVA/POE   |
| Backsheet             | White   |
| Frame                 | Anodized Aluminium Alloy                                    |
| J-Box                 | IP68  |
| Output Cable          | 4.0mm²  |
| (Including Connector) | Length Portrait:300/300mm (can be customized)               |
| Connector             | MC4 Compatible  |

Temperature Ratings

|   |            |
|---|------------|
| NMOT (Nominal operating cell temperature) | 42°C(±2°C) |
| 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)

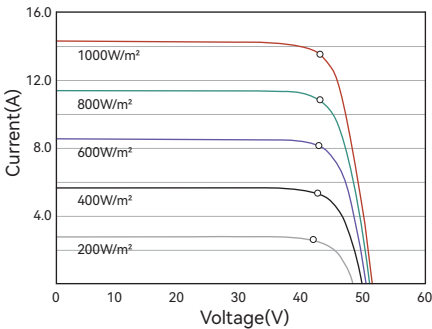
Packaging

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

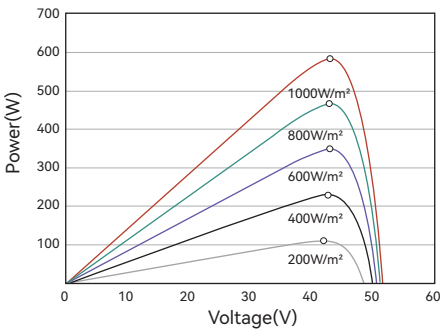
Operating Parameters

|                            |                |
|----------------------------|----------------|
| Operational Temperature    | -40°C~+85°C    |
| Maximum System Voltage     | 1500V DC (IEC) |
| Maximum Series Fuse Rating | 30A            |
| Bifacility                 | /              |

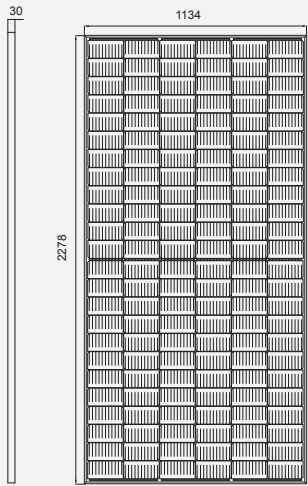
I-V Curves of PV Module (580W)



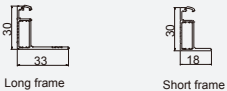
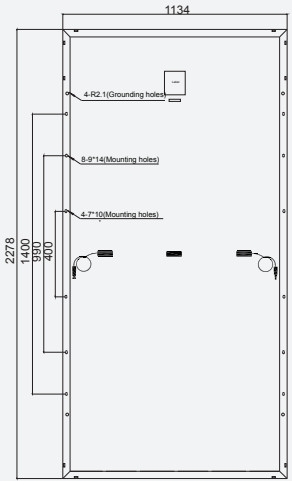
P-V Curves of PV Module (580W)



Dimensions (Unit: mm)



Front View



Back View