

# HANERSUN



## GREENSTOR

simply the best

# TOPCon



## TOPCon

Bifacial Module

## 22.84%

Maximum Efficiency

## 15 YEARS

Product Warranty

# Hitouch 5N

## HN18N-72HT

## 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.

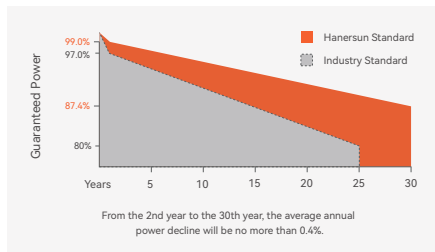


### Lower Hot Spot and Crack Risk

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

Reduce crack risk by MBB solar cell design.

### Power Warranty



### Insurance

Munich RE

### Certificates



15-year product warranty



30-year linear power output warranty

### 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-72HT570W		HN18N-72HT575W		HN18N-72HT580W		HN18N-72HT585W		HN18N-72HT590W	
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	13.49	10.92	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	14.30	11.53	14.35	11.59
Module Efficiency(%)	22.07%		22.26%		22.45%		22.65%		22.84%	

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.  
 \*Measuring tolerance: 0 ~ +5W

NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

**Electrical Characteristics with 10% Solar Irradiation Ratio**

Module Type	HN18N-72HT570W	HN18N-72HT575W	HN18N-72HT580W	HN18N-72HT585W	HN18N-72HT590W
Maximum Power (Pmax)	626	631	637	642	647
Maximum Power Voltage (Vmp)	42.80	43.00	43.20	43.40	43.60
Maximum Power Current (Imp)	14.64	14.68	14.76	14.80	14.84
Open-circuit Voltage (Voc)	51.00	51.20	51.40	51.60	51.80
Short-circuit Current (Isc)	15.52	15.58	15.65	15.69	15.75

**Mechanical Parameters**

Solar Cells	Monocrystalline (182mm)
Module Dimensions	2278*1134*30mm
Glass	2mm-2mm
Frame	Anodized Aluminium Alloy
Output Cable	4.0mm <sup>2</sup> , 300/300mm

No. of Cells	144 [2 x (12 x 6)]
Weight	32.5kg
Encapsulant Material	EVA/POE
J-Box	IP68
Connector	MC4 Compatible

**Temperature Ratings**

NMOT (Nominal operating cell temperature)	42°C(±2°C)
Temperature Coefficient of Pmax	-0.310%/°C
Temperature Coefficient of Voc	-0.260%/°C
Temperature Coefficient of Isc	+0.046%/°C

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

**Packaging**

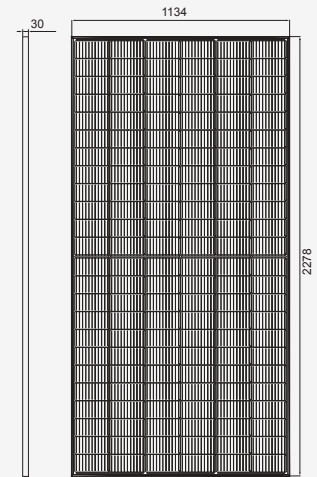
Pcs per Pallet: 36

**Operating Parameters**

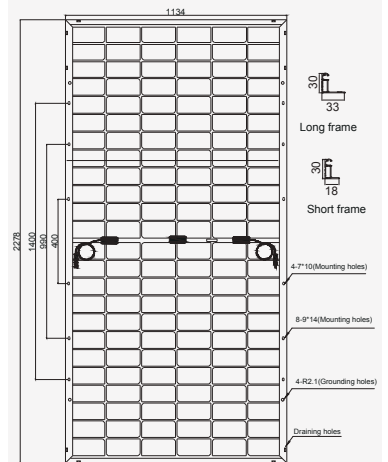
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Bifaciality	80%-85%

Pcs per 40' HC: 720

**Dimensions (Unit: mm)**

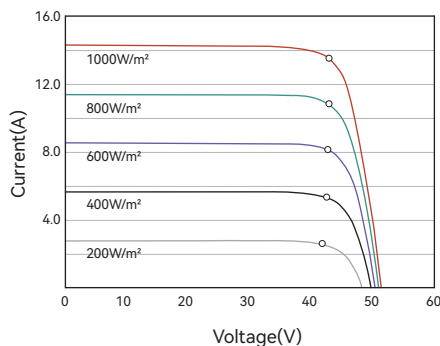


Front View



Back View

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



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

