N-TOPCon

HANERSUN

Hitouch 5N

HN18N-72HT

575-600W

BIFACIAL
High Efficiency Module

23.2%
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.

Higher Power Output

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

MBB technology enhances current collection with lower series resistance.

Lower Hot Spot and Crack Risk

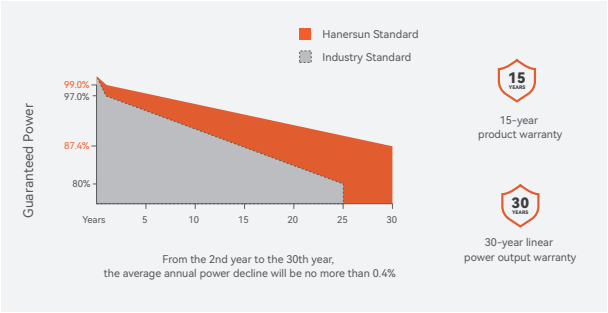
Reduce hot-spot risk with optimized electrical design and lower operating current.

Reduce crack risk by MBB solar cell design.

Excellent Temperature Coefficient

Lower operating temperature and temperature coefficient increases the power output.

Power Warranty



Certificates

Warranty partner

Munich RE

About Hanersun

Hanersun is a world-leading clean energy company, focusing on R&D, manufacturing and distribution of solar module and energy storage system, as well as comprehensive clean energy solutions. Committed to high-efficiency technologies, the company is one of the first to launch PV modules of 600W+ and 700W+ in the industry.

Electrical Characteristics（STC）

Module Type	HN18N-72HT575W	HN18N-72HT580W	HN18N-72HT585W	HN18N-72HT590W	HN18N-72HT595W	HN18N-72HT600W
Maximum Power (Pmax)	575	580	585	590	595	600
Maximum Power Voltage (Vmp)	43.00	43.20	43.40	43.60	43.80	44.00
Maximum Power Current (Imp)	13.38	13.43	13.48	13.54	13.59	13.64
Open-circuit Voltage (Voc)	51.20	51.40	51.60	51.80	52.00	52.20
Short-circuit Current (Isc)	14.17	14.23	14.29	14.35	14.41	14.47
Module Efficiency(%)	22.3%	22.5%	22.6%	22.8%	23.0%	23.2%

STC: Irradiance 1000W/m², Cell Temperature 25℃, Air Mass AM1.5.

Power Tolerance: 0~+3%

Electrical Characteristics（BNPI）

Module Type	575W	580W	585W	590W	595W	600W
Maximum Power (Pmax)	637	643	648	654	659	665
Maximum Power Voltage (Vmp)	43.00	43.20	43.40	43.60	43.80	44.00
Maximum Power Current (Imp)	14.82	14.89	14.94	15.00	15.05	15.12
Open-circuit Voltage (Voc)	51.20	51.40	51.60	51.80	52.00	52.20
Short-circuit Current (Isc)	15.70	15.77	15.83	15.90	15.97	16.04

BNPI: Irradiance: Front 1000W/m², Rrear 135W/m², Cell Temperature 25℃, Air Mass AM1.5.

Mechanical Parameters

Solar Cells	N-TYPE Monocrystalline (182mm)	No. of Cells	144 [2 x (12 x 6)]
Module Dimensions	2278*1134*30mm	Weight	31.5kg
Glass	2mm-2mm	J-Box	IP68
Frame	Anodized Aluminium Alloy	Connector	MC4-EVO 2A/Z4S-abcd/Others
Output Cable	4.0mm²	Cable Length	1200/1200mm (can be customized)

Operating Parameters

Operational Temperature	-40℃~+85℃
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%/℃
Temperature Coefficient of Voc	-0.23%/℃
Temperature Coefficient of Isc	+0.045%/℃

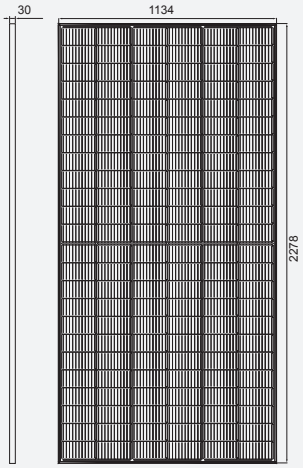
(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

Packaging

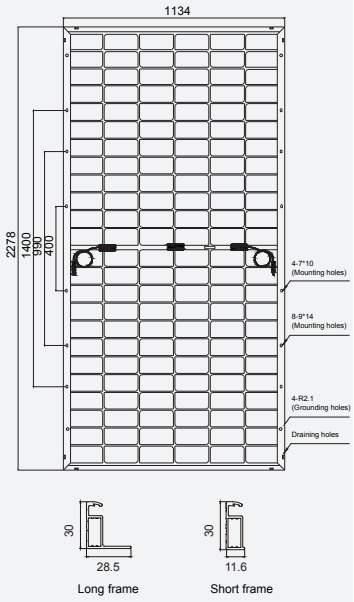
Pcs per Pallet: 37

Pcs per 40' HC: 740

Dimensions (Unit: mm)

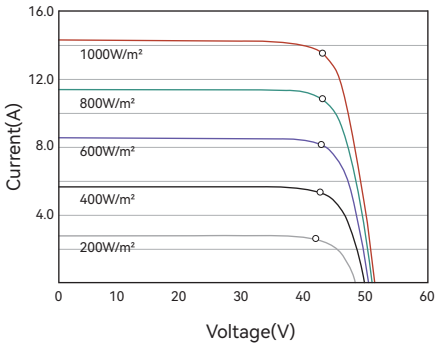


Front View

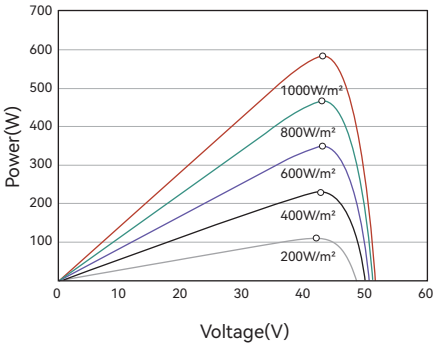


Back View

I-V Curves of PV Module (585W)



P-V Curves of PV Module (585W)



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