



Hitouch 5N

HN18N-60HT

470-495W

BIFACIAL

High Efficiency Module

22.9%

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.

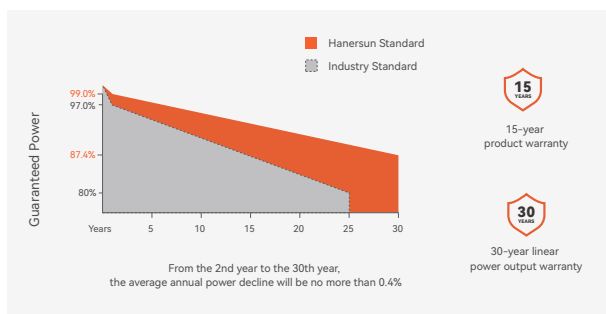
Reduce crack risk by MBB solar cell design.



Excellent Temperature Coefficient

Lower operating temperature and temperature coefficient increases the power output.

Power Warranty



Certificates



Warranty partner



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-60HT470W	HN18N-60HT475W	HN18N-60HT480W	HN18N-60HT485W	HN18N-60HT490W	HN18N-60HT495W
Maximum Power (Pmax)	470	475	480	485	490	495
Maximum Power Voltage (Vmp)	35.50	35.70	35.90	36.10	36.30	36.50
Maximum Power Current (Imp)	13.28	13.34	13.40	13.44	13.50	13.57
Open-circuit Voltage (Voc)	42.40	42.60	42.80	43.00	43.20	43.40
Short-circuit Current (Isc)	14.08	14.16	14.21	14.24	14.29	14.34
Module Efficiency(%)	21.7%	21.9%	22.2%	22.4%	22.6%	22.9%

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

Power Tolerance: 0~+3%

Electrical Characteristics (BNPI)

Module Type	470W	475W	480W	485W	490W	495W
Maximum Power (Pmax)	521	526	532	537	543	548
Maximum Power Voltage (Vmp)	35.50	35.70	35.90	36.10	36.30	36.50
Maximum Power Current (Imp)	14.68	14.74	14.82	14.88	14.96	15.02
Open-circuit Voltage (Voc)	42.40	42.60	42.80	43.00	43.20	43.40
Short-circuit Current (Isc)	15.60	15.69	15.74	15.78	15.83	15.89

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Cell Temperature 25°C, AM=1.5

Mechanical Parameters

Solar Cells	N-TYPE Monocrystalline(182mm)	No. of Cells	120[2 x (10x 6)]
Module Dimensions	1910*1134*30mm	Weight	26.0kg
Glass	2mm-2mm	J-Box	IP68
Frame	Anodized Aluminium Alloy	Connector	MC4-EVO 2A/Z4S-abcd/Others
Output Cable	4.0mm²	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
Bifacity	80±5%
Fire Class Rating	Class C

Packaging

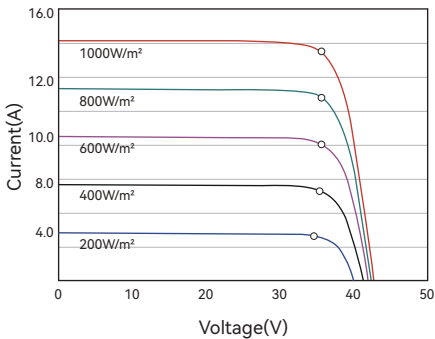
Pcs per Pallet: 37

Temperature Ratings

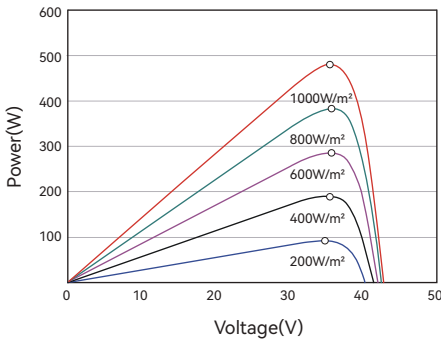
Temperature Coefficient of Pmax	-0.28%/°C
Temperature Coefficient of Voc	-0.23%/°C
Temperature Coefficient of Isc	+0.045%/°C

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

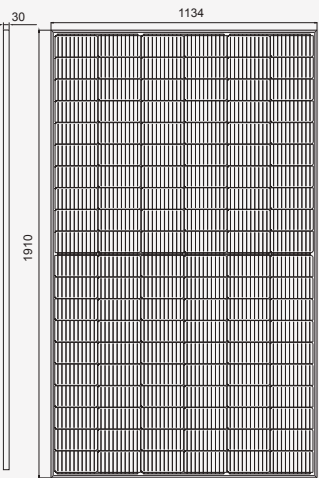
I-V Curves of PV Module (480W)



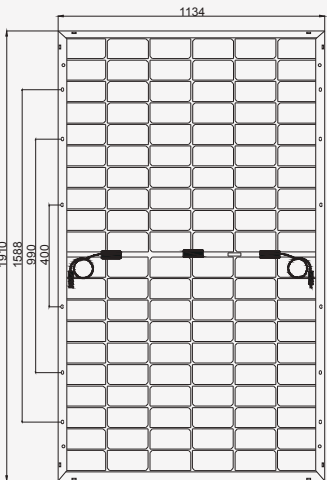
P-V Curves of PV Module (480W)



Dimensions (Unit: mm)



Front View



Long frame



Short frame

Back View