



Hitouch 5N

HN18N-60H

470-495W

MONOFACIAL

High Efficiency Module

22.9%

Maximum Efficiency



Long-Term Reliability

Module certified to withstand mechanical test load +5400Pa / -2400Pa..

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.

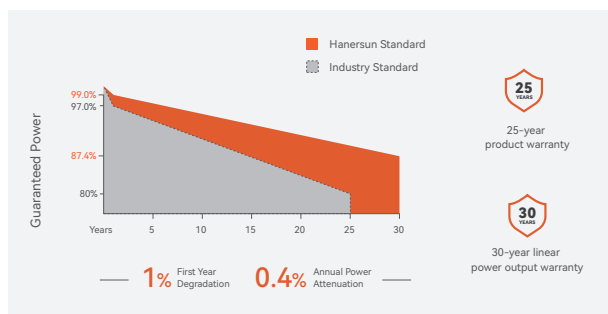
MBB technology enhances current collection with lower series resistance.



Excellent Temperature Coefficient

Lower operating temperature and temperature coefficient increases the power output.

Power Warranty



Certificates



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-60H470W	HN18N-60H475W	HN18N-60H480W	HN18N-60H485W	HN18N-60H490W	HN18N-60H495W
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.

*Measuring Tolerance: ±3%
Power Binning Tolerance: 0~+5W

Mechanical Parameters

Solar Cells	N-TYPE Monocrystalline(182mm)
No. of Cells	120 [2 x (10 x 6)]
Module Dimensions	1910*1134*30/35mm
Weight	21.6kg
Glass	3.2mm, Anti-reflection Coating, High Transmission, Low Iron, Tempered Glass
Backsheet	White
Frame	Anodized Aluminium Alloy
J-Box	IP68
Output Cable	4.0mm²
Cable Length	Length Portrait:300/300mm (can be customized)
Connector	Zerun Co.,Ltd / Z4S-abcd Stäubli Electrical connectors AG / PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy

Operating Parameters

Operational Temperature	-40°C~+70°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	25A
Bifacility	/
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

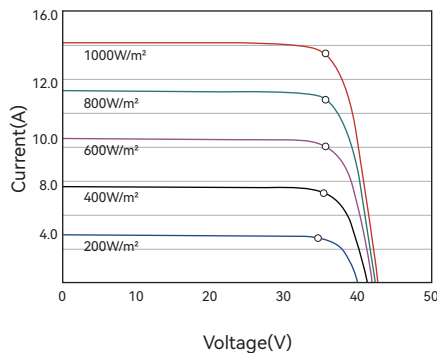
(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

Packaging

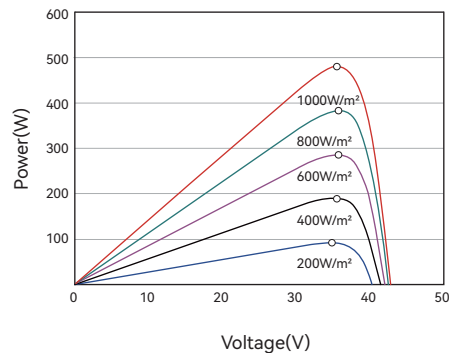
Pcs per Pallet: 37

Pcs per 40' HC: 888

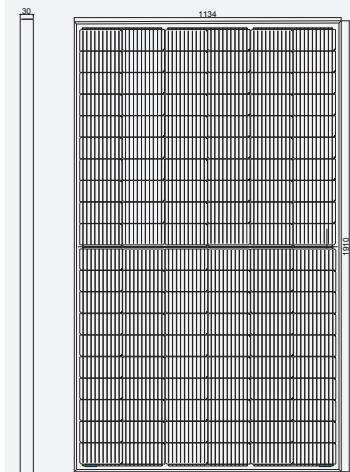
I-V Curves of PV Module (480W)



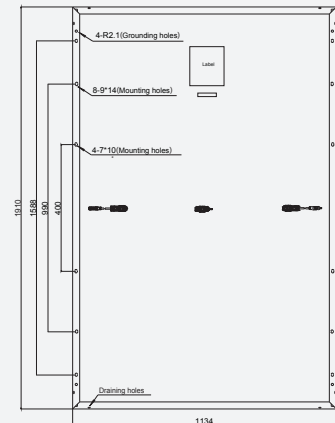
P-V Curves of PV Module (480W)



Dimensions (Unit: mm)



Front View



Back View

