



Hitouch 5N HN18N-54H

420-440W

TOPCon

High Efficiency Module

22.53%

Maximum Efficiency

25 YEARS

Product Warranty



Higher Power Output

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

MBB technology enhances current collection with lower series resistance.



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.



Excellent Temperature Coefficient

Lower operating temperature and temperature coefficient increases the power output.

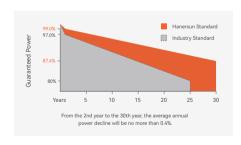


Lower Hot Spot and Crack Risk

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

Reduce crack risk by MBB solar cell design.

Power Warranty







Insurance



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-54H420W		HN18N-54H425W		HN18N-54H430W		HN18N-54H435W		HN18N-54H440W	
Testing Condition	STC	NMOT								
Maximum Power (Pmax)	420	318	425	322	430	326	435	330	440	334
Maximum Power Voltage (Vmp)	31.90	30.00	32.10	30.20	32.30	30.30	32.50	30.50	32.70	30.70
Maximum Power Current (Imp)	13.17	10.62	13.24	10.67	13.32	10.74	13.39	10.80	13.46	10.88
Open-circuit Voltage (Voc)	37.90	36.20	38.10	36.40	38.30	36.60	38.50	36.80	38.70	37.00
Short-circuit Current (Isc)	13.98	11.27	14.05	11.33	14.12	11.38	14.19	11.44	14.26	11.50
Module Efficiency(%)	21.50%		21.76%		22.02%		22.27%		22.53%	

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

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

Mechanical Parameters

Solar Cells	Monocrystalline (182mm)	
No. of Cells	108 [2 x (9 x 6)]	
Module Dimensions	1722*1134*30mm	
Weight	21.5kg	
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	4.0mm ²	
(Including Connector)	Length Portrait:300/300mm (can be customized)	
Connector	MC4 Compatible	

Temperature Ratings

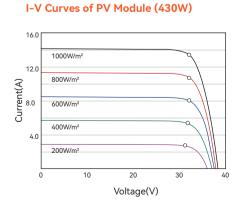
NMOT (Nominal operating cell temperature)	42°C(±2°C)		
Temperature Coefficient of Pmax	-0.28%/℃		
Temperature Coefficient of Voc	-0.23%/℃		
Temperature Coefficient of Isc	+0.045%/°C		

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

Packaging

Pcs per Pallet: 37

Pcs per 40' HC: 962

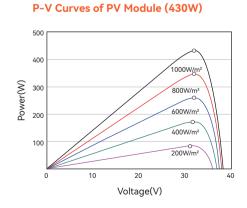


Operating Parameters
Operational Temperature

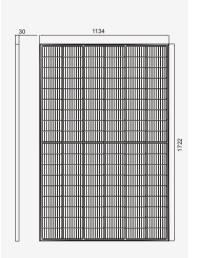
Maximum System Voltage

Bifacility

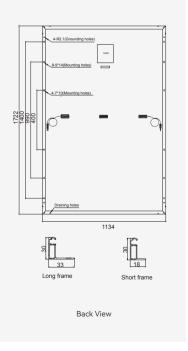
Maximum Series Fuse Rating



Dimensions (Unit: mm)



Front View





Tel: +86-25-52791766

Email: sales@hanersun.com

-40°C~+85°C

30A

1500V DC (IEC)

Website: www.hanersun.com

^{*}Measuring tolerance: 0 ~ +5W