



# Hitouch 5N

HN18N-54H

**420-440W**

## TOPCon

High Efficiency Module

**22.53%**

Maximum Efficiency

**15 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.



### 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.

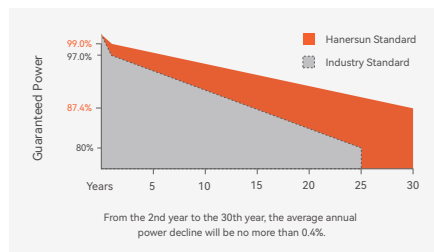


### Lower Hot Spot and Crack Risk

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

Reduce crack risk by MBB solar cell design.

### Power Warranty



15-year product warranty



30-year linear power output 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	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	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/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.

**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 <sup>2</sup>
(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	-0.310%/°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)

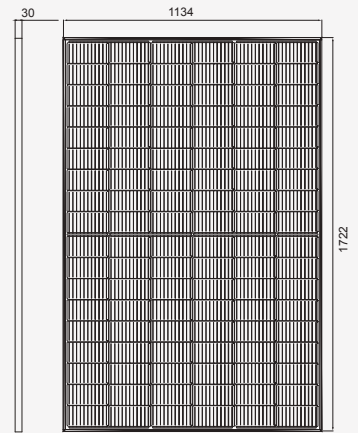
**Packaging**

Pcs per Pallet: 36
Pcs per 40' HC: 936

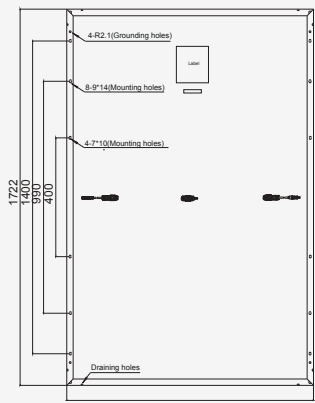
**Operating Parameters**

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
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**Dimensions (Unit: mm)**

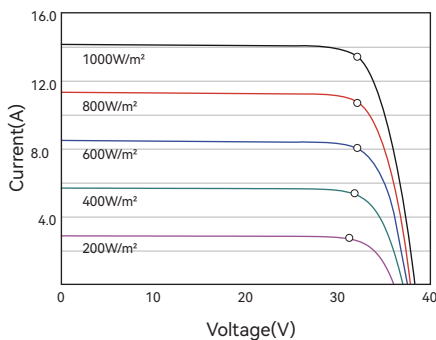


Front View



Back View

**I-V Curves of PV Module (430W)**



**P-V Curves of PV Module (430W)**

