

Hitouch 5N

HN18N-54HT

420-440W

TOPCon

Bifacial Module

22.53%

Maximum Efficiency

30 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.

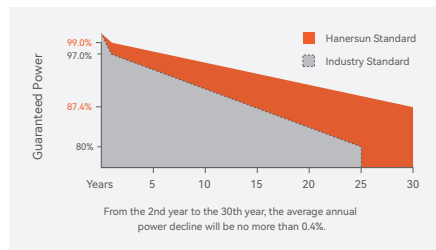


Lower Hot Spot and Crack Risk

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

Reduce crack risk by MBB solar cell design.

Power Warranty



30-year product warranty



30-year linear power output warranty

Comprehensive Certificates

IEC 61215-1:2016, IEC 61215-1-1:2016
IEC 61215-2:2016, IEC 61730-1:2016
IEC 61730-2:2016



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.

* This version datasheet applies to Suntastic.Solar Handels GmbH only.

Electrical Characteristics

Module Type	HN18N-54HT420W		HN18N-54HT425W		HN18N-54HT430W		HN18N-54HT435W		HN18N-54HT440W	
	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	11.51
Module Efficiency(%)	21.50%		21.76%		22.02%		22.27%		22.53%	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
 *Measuring tolerance: 0 ~ +5W

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

Electrical Characteristics with 10% Solar Irradiation Ratio

Module Type	HN18N-54HT420W	HN18N-54HT425W	HN18N-54HT430W	HN18N-54HT435W	HN18N-54HT440W
Maximum Power (Pmax)	461	466	472	478	484
Maximum Power Voltage (Vmp)	31.90	32.10	32.30	32.50	32.70
Maximum Power Current (Imp)	14.48	14.54	14.64	14.70	14.80
Open-circuit Voltage (Voc)	37.90	38.10	38.30	38.50	38.70
Short-circuit Current (Isc)	15.37	15.45	15.53	15.61	15.69

Mechanical Parameters

Solar Cells	Monocrystalline (182mm)
Module Dimensions	1722*1134*30mm
Glass	2.0mm-2.0mm
Frame	Anodized Aluminium Alloy
Output Cable	4.0mm ² , 1200/1200mm

No. of Cells	108 [2 x (9 x 6)]
Weight	24.5kg
Encapsulant Material	EVA/POE
J-Box	IP68
Connector	MC4 Original

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

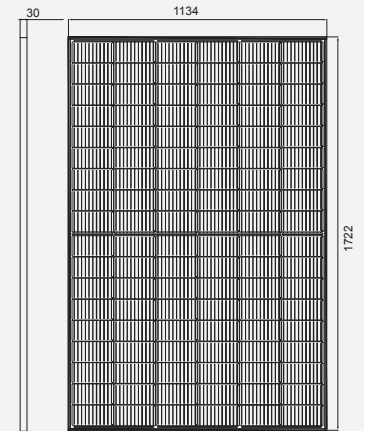
Pcs per Pallet: 36

Operating Parameters

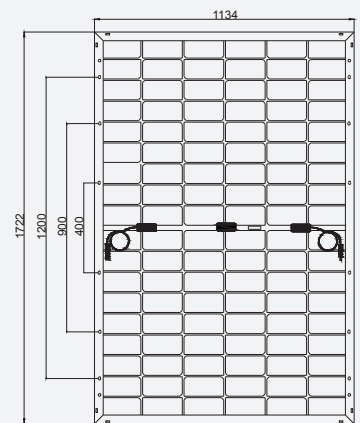
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Bifacility	80%-85%

Pcs per 40' HC: 936

Dimensions (Unit: mm)

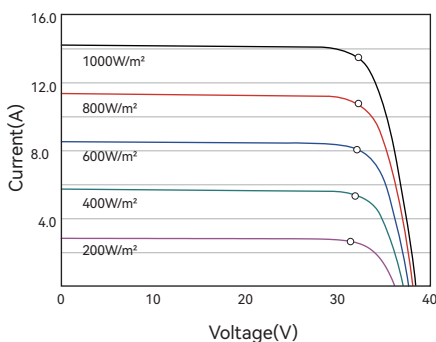


Front View



Back View

I-V Curves of PV Module (430W)



P-V Curves of PV Module (430W)

