



Hitouch^{5N}

HN18N-54HT

420-445W



Long-Term Reliability



Lower Hot Spot and Crack Risk



Higher Power Output



Excellent Temperature Coefficient

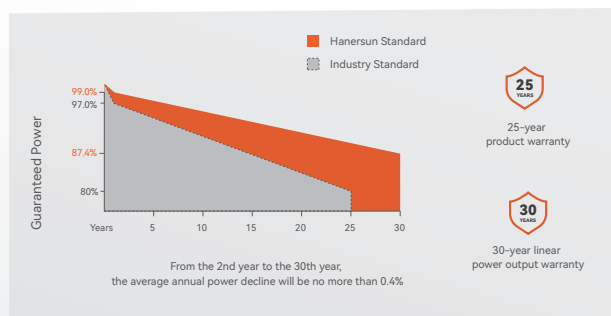
BIFACIAL

Full Black Module

22.8%

Maximum Efficiency

Power Warranty



Certificates



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-54HT420W	HN18N-54HT425W	HN18N-54HT430W	HN18N-54HT435W	HN18N-54HT440W	HN18N-54HT445W
Maximum Power (Pmax)	420	425	430	435	440	445
Maximum Power Voltage (Vmp)	31.90	32.10	32.30	32.50	32.70	32.90
Maximum Power Current (Imp)	13.17	13.24	13.32	13.30	13.46	13.53
Open-circuit Voltage (Voc)	37.90	38.10	38.30	38.50	38.70	38.90
Short-circuit Current (Isc)	13.98	14.05	14.12	14.19	14.26	14.33
Module Efficiency(%)	21.5%	21.8%	22.0%	22.3%	22.5%	22.8%

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

Power Tolerance: 0~+3%

Electrical Characteristics (BNPI)

Module Type	420W	425W	430W	435W	440W	445W
Maximum Power (Pmax)	465	471	476	482	488	493
Maximum Power Voltage (Vmp)	31.90	32.10	32.30	32.50	32.70	32.90
Maximum Power Current (Imp)	14.58	14.68	14.74	14.84	14.93	14.99
Open-circuit Voltage (Voc)	37.90	38.10	38.30	38.50	38.70	38.90
Short-circuit Current (Isc)	15.49	15.57	15.64	15.72	15.80	15.88

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Cell Temperature 25°C, Air Mass AM1.5.

Mechanical Parameters

Solar Cells	N-TYPE Monocrystalline(182mm)	No. of Cells	108 [2 x (9 x 6)]
Module Dimensions	1722*1134*30mm	Weight	23.3kg
Front Glass	2.0 mm, Anti-reflection Coating	J-Box	IP68
Back Glass	2.0 mm, Heat Strengthened Glass	Connector	Z4S-abcd/MC4-EVO 2A/Others
Frame	Anodized Aluminium Alloy	Cables	4.0mm², 300/300mm (can be customized)

Operating Parameters

Operational Temperature	-40°C~+70°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Bifacility	80±5%
Fire Type	UL Type 29

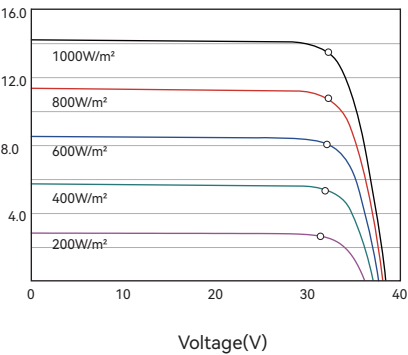
Temperature Ratings

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

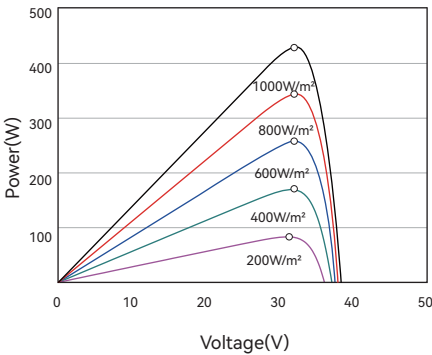
Packaging

Pcs per Pallet: 37	Pcs per 40' HC: 962
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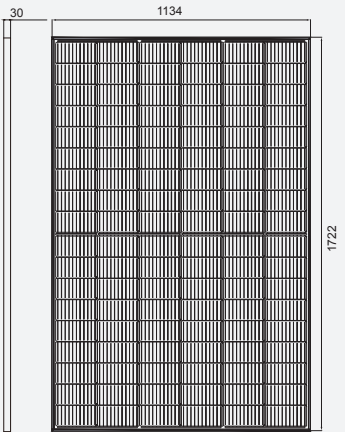
I-V Curves of PV Module (435W)



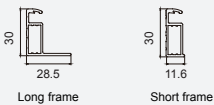
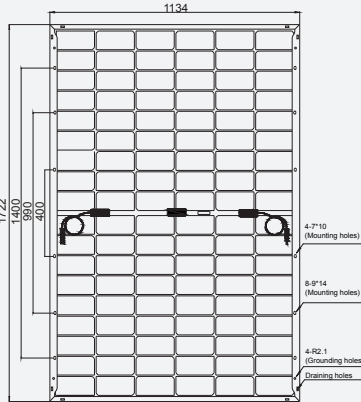
P-V Curves of PV Module (435W)



Dimensions (Unit: mm)



Front View



Back View