



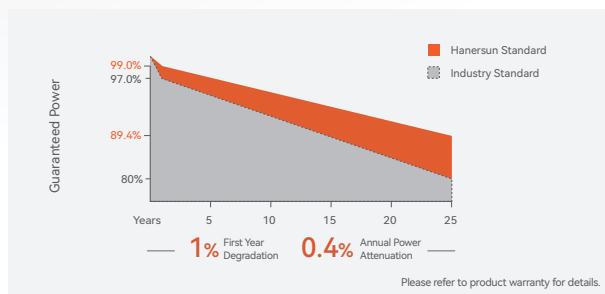
ULTRA -LIGHT MODULE SERIES

Hitouch^{5N}

HN18N-54H-L

420-445W

Power Warranty



12-year
product warranty



25-year linear
power output warranty

Certificates



Ultra-light

Unique design, the module weighs 13.8kg, about 35% lighter than conventional modules.



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 3600 Pa positive static load and 2400 Pa negative static load.

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.

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-54H-L420W	HN18N-54H-L425W	HN18N-54H-L430W	HN18N-54H-L435W	HN18N-54H-L440W	HN18N-54H-L445W
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	13.39	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%

Mechanical Parameters

Solar Cells	N-TYPE Monocrystalline(182mm)
No. of Cells	108 [2 x (9 x 6)]
Module Dimensions	1722*1134*30mm
Weight	13.8kg
Glass	1.6mm, Anti-reflection Coating, High Transmission, Heat Strengthened Glass
Backsheet	White
Frame	Anodized Aluminium Alloy
J-Box	IP68
Cables (Including Connector)	4.0mm²,300/300mm (can be customized)
Connector	Z4S-abcd/MC4-EVO 2A/Others

Operating Parameters

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

Temperature Ratings

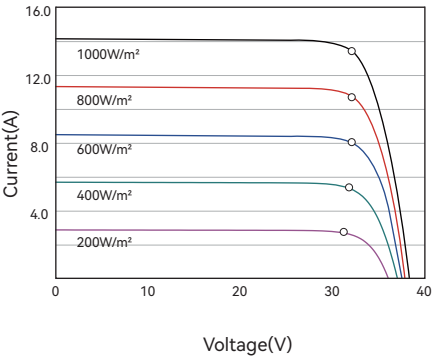
Temperature Coefficient of Pmax	-0.28%/°C
Temperature Coefficient of Voc	-0.23%/°C
Temperature Coefficient of Isc	+0.045%/°C

Packaging

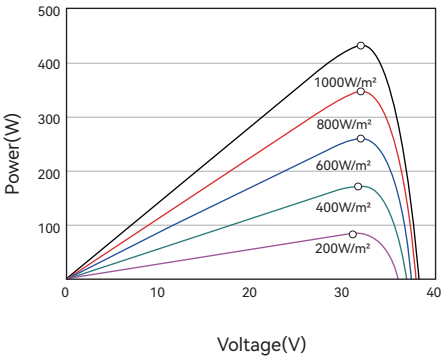
Pcs per Pallet: 37

Pcs per 40' HC: 962

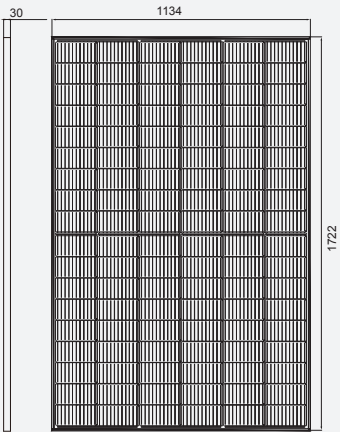
I-V Curves of PV Module (430W)



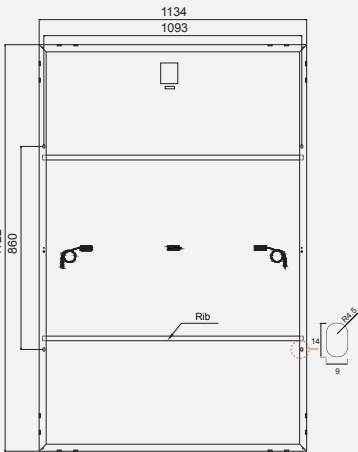
P-V Curves of PV Module (430W)



Dimensions (Unit: mm)



Front View



Back View