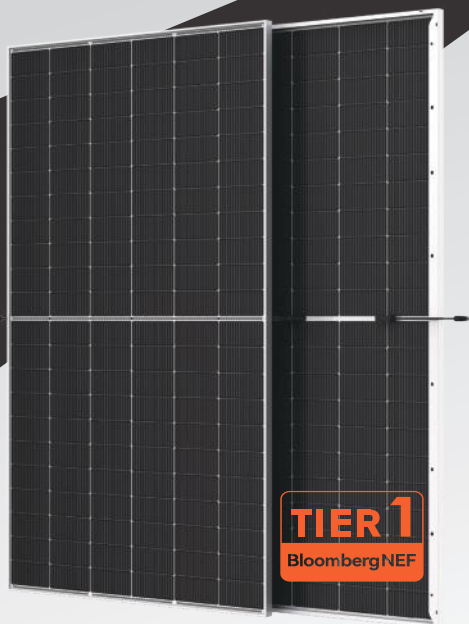




Hitouch ^{6N PLUS}

HN21RN-66HT

630-650W

BIFACIAL

High Efficiency Module

24.1%

Maximum Efficiency



Long-Term Reliability

Module certified to withstand 5400 Pa positive static load and 2400 Pa negative static load.

Excellent anti-PID performance to guarantee a better sustainability in harsh environment.



Higher Power Output

The GEN2 cell technology enables higher efficiency in Hanersun modules.

Better light trapping and current collection to improve module power output and reliability.



Lower Hot Spot and Crack Risk

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

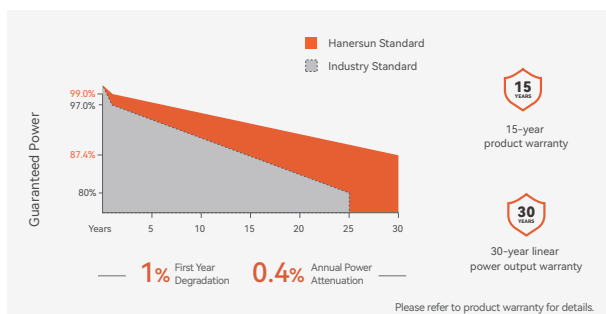
Reduce crack risk by optimization of solar cell design.



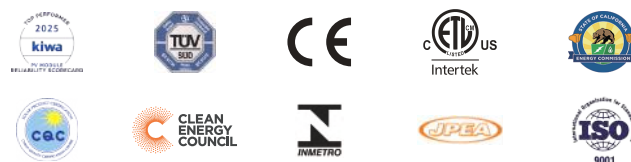
Excellent Temperature Coefficient

Lower operating temperature and temperature coefficient increases the power output.

Power Warranty



Certificates



Warranty partner



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	HN21RN-66HT630W	HN21RN-66HT635W	HN21RN-66HT640W	HN21RN-66HT645W	HN21RN-66HT650W
Maximum Power (Pmax)	630	635	640	645	650
Maximum Power Voltage (Vmp)	41.31	41.49	41.67	41.85	42.03
Maximum Power Current (Imp)	15.26	15.31	15.36	15.42	15.47
Open-circuit Voltage (Voc)	49.52	49.72	49.92	50.12	50.32
Short-circuit Current (Isc)	16.18	16.24	16.30	16.36	16.42
Module Efficiency(%)	23.3%	23.5%	23.7%	23.9%	24.1%

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

Power Tolerance: 0~+3%

Electrical Characteristics (BNPI)

Module Type	630W	635W	640W	645W	650W
Maximum Power (Pmax)	698	704	710	715	721
Maximum Power Voltage (Vmp)	41.31	41.49	41.67	41.85	42.03
Maximum Power Current (Imp)	16.90	16.97	17.04	17.09	17.16
Open-circuit Voltage (Voc)	49.52	49.72	49.92	50.12	50.32
Short-circuit Current (Isc)	17.93	17.99	18.07	18.13	18.20

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

Mechanical Parameters

Solar Cells	N-TYPE Monocrystalline (210R)	No. of Cells	132 [2 x (11 x 6)]
Module Dimensions	2382*1134*30mm	Weight	32.5kg
Frame	Anodized Aluminium Alloy	J-Box	IP68
Front Glass	2.0 mm, AR Coating Heat Strengthened Glass	Connector	Z4S-abcd/MC4-EVO 2A/Others
Back Glass	2.0 mm, Heat Strengthened Glass	Cable Length	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	35A
Bifacial	80±5%
Fire Class Rating	Class C

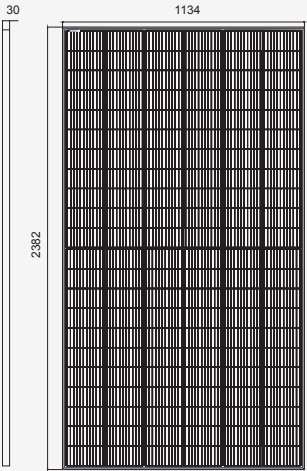
Packaging

Pcs per Pallet: 37

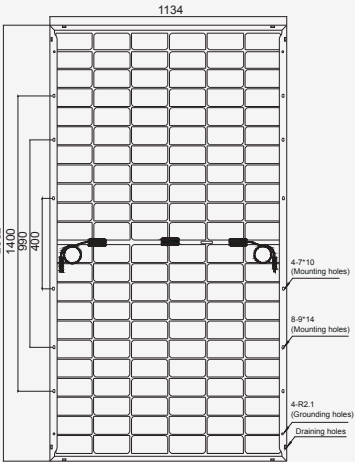
Temperature Ratings

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

Dimensions (Unit: mm)

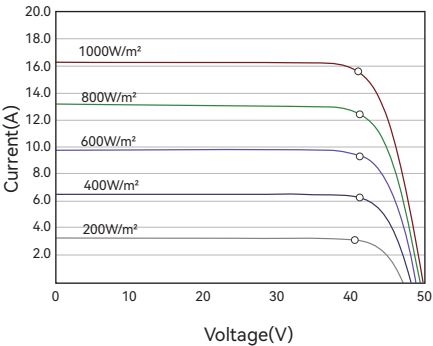


Front View



Back View

I-V Curves of PV Module (640W)



P-V Curves of PV Module (640W)

