N-TOPCon

HANERSUN



Hitouch 6N

HN21N-60HT

620-640W

BIFACIAL
High Efficiency Module

22.6%
Maximum Efficiency

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.

Higher Power Output

Higher module conversion efficiency benefit from bigger wafer and half-cell structure.

MBB technology enhances current collection with lower series resistance.

Lower Hot Spot and Crack Risk

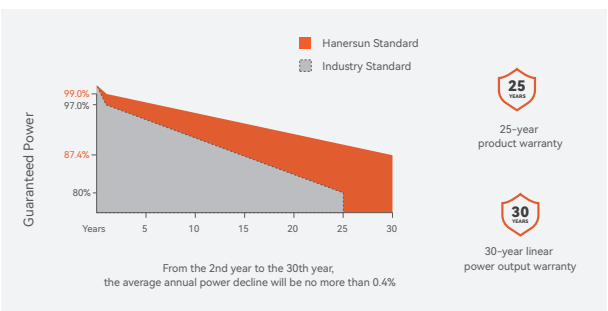
Reduce hot-spot risk with optimized electrical design and lower operating current.

Reduce crack risk by MBB solar cell design.

Excellent Temperature Coefficient

Lower operating temperature and temperature coefficient increases the power output.

Power Warranty



Certificates

Insurance

Munich RE

About Hanersun

Hanersun is a world-leading clean energy company, with a business scope from the R&D and intelligent manufacturing of solar modules, energy storage products, to comprehensive energy solutions.

Made in China

Electrical Characteristics (STC&BNPI) HN21N-60HTXXXW(XXX=620-640)

Testing Condition	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power (Pmax)*	620	687	625	693	630	698	635	704	640	709
Maximum Power Voltage (Vmp)	36.07	36.07	36.28	36.28	36.48	36.48	36.68	36.68	36.88	36.88
Maximum Power Current (Imp)	17.19	19.05	17.23	19.11	17.27	19.14	17.32	19.20	17.36	19.23
Open-circuit Voltage (Voc)*	42.80	42.80	43.00	43.00	43.20	43.20	43.40	43.40	43.60	43.60
Short-circuit Current (Isc)*	18.19	20.15	18.23	20.20	18.27	20.24	18.31	20.29	18.35	20.33
Module Efficiency(%)	21.9%		22.1%		22.3%		22.4%		22.6%	

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

BNPI: Irradiance: Front 1000W/m², Rear 135W/m², Cell Temperature 25℃, AM=1.5

*Measuring Tolerance: ±3%
Power Binning Tolerance: 0~+5W

Electrical characteristics with different power bin (reference to 10% backside power gain)

Module Type	620W	625W	630W	635W	640W
Maximum Power (Pmax)	682	688	693	699	704
Maximum Power Voltage (Vmp)	36.07	36.28	36.48	36.68	36.88
Maximum Power Current (Imp)	18.91	18.97	19.00	19.06	19.10
Open-circuit Voltage (Voc)	42.80	43.00	43.20	43.40	43.60
Short-circuit Current (Isc)	20.01	20.06	20.10	20.15	20.19

Mechanical Parameters

Solar Cells	N-TYPE Monocrystalline(210mm)	No. of Cells	120 [2 x (10 x 6)]
Module Dimensions	2172*1303*30mm	Weight	35.5kg
Glass	2mm-2mm	J-Box	IP68
Frame	Anodized Aluminium Alloy	Output Cable	4.0mm², 1200/1200mm
Connector	Zerun Co.,Ltd / Z4S-abcd Stäubli Electrical connectors AG / PV-KST4-EVO2A/xy, PV-KBT4-EVO2A/xy		

Operating Parameters

Operational Temperature	-40℃~+85℃
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	35A
Bifacility	ϕPmax=80±5% ϕIsc=80±5% ϕVoc=98±2%
Fire Class Rating	Class C

Temperature Ratings

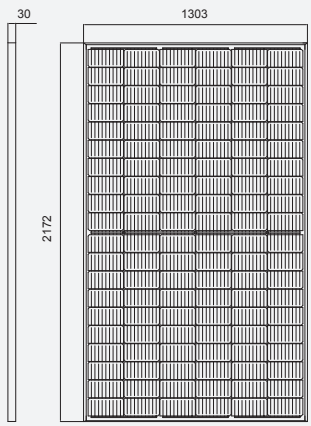
Temperature Coefficient of Pmax	-0.28%/℃
Temperature Coefficient of Voc	-0.23%/℃
Temperature Coefficient of Isc	+0.045%/℃

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

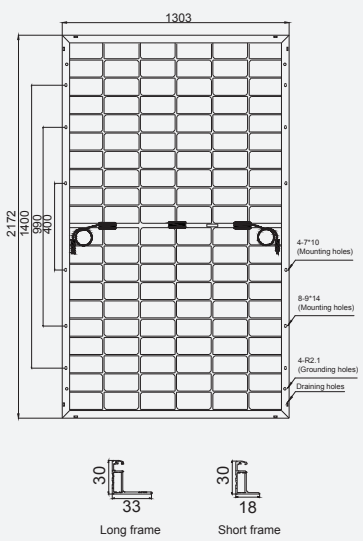
Packaging

Pcs per Pallet: 37	Pcs per 40' HC: 666

Dimensions (Unit: mm)

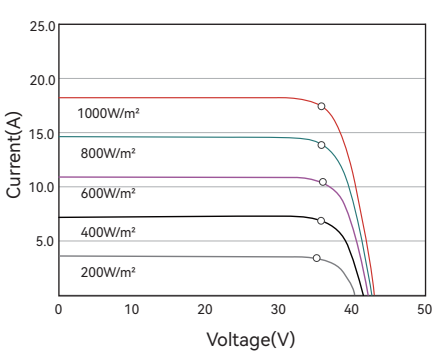


Front View

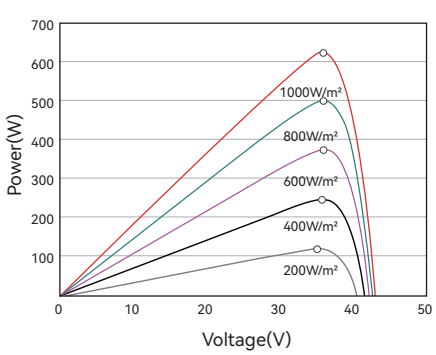


Back View

I-V Curves of PV Module (625W)



P-V Curves of PV Module (625W)



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