



## MONO PERC

Bifacial Module

### 21.55%

Maximum Efficiency

### 15 YEARS

Product Warranty

# Hitouch 6

HN21-60HT

## 590-610W



### 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.

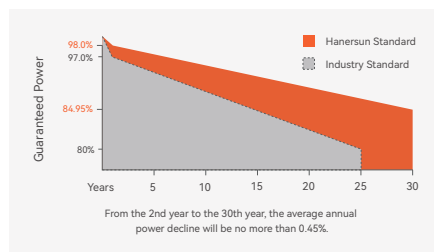


### Lower Hot Spot and Crack Risk

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

Reduce crack risk by MBB solar cell design.

### Power Warranty



15-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.

**Electrical Characteristics**

Module Type	HN21-60HT590W		HN21-60HT595W		HN21-60HT600W		HN21-60HT605W		HN21-60HT610W	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	590	442	595	446	600	450	605	456	610	460
Maximum Power Voltage (Vmp)	34.50	32.30	34.70	32.50	34.90	32.70	35.10	32.90	35.30	33.20
Maximum Power Current (Imp)	17.11	13.70	17.15	13.73	17.20	13.77	17.25	13.82	17.29	13.86
Open-circuit Voltage (Voc)	40.90	38.70	41.10	38.80	41.30	39.00	41.50	39.20	41.70	39.60
Short-circuit Current (Isc)	18.37	14.80	18.42	14.85	18.47	14.89	18.52	14.94	18.56	15.02
Module Efficiency(%)	20.80%		21.00%		21.20%		21.40%		21.55%	

STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.  
 \*Measuring tolerance: 0 ~ +5W

NMOT: Irradiance at 800W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1m/s.

**Electrical Characteristics with 10% Solar Irradiation Ratio**

Module Type	HN21-60HT590W	HN21-60HT595W	HN21-60HT600W	HN21-60HT605W	HN21-60HT610W
Maximum Power (Pmax)	649	655	660	665	670
Maximum Power Voltage (Vmp)	34.50	34.70	34.90	35.10	35.30
Maximum Power Current (Imp)	18.82	18.88	18.92	18.97	18.98
Open-circuit Voltage (Voc)	40.90	41.10	41.30	41.50	41.70
Short-circuit Current (Isc)	20.21	20.26	20.32	20.37	20.42

**Mechanical Parameters**

Solar Cells	Monocrystalline (210mm)
Module Dimensions	2172*1303*30mm
Glass	2mm-2mm
Frame	Anodized Aluminium Alloy
Output Cable	4.0mm <sup>2</sup> , 300/300mm

No. of Cells	120 [2 x (10 x 6) ]
Weight	34.4kg
Encapsulant Material	EVA/POE
J-Box	IP68
Connector	MC4 Compatible

**Temperature Ratings**

NMOT (Nominal operating cell temperature)	45°C(±2°C)
Temperature Coefficient of Pmax	-0.349%/°C
Temperature Coefficient of Voc	-0.274%/°C
Temperature Coefficient of Isc	+0.050%/°C

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

**Operating Parameters**

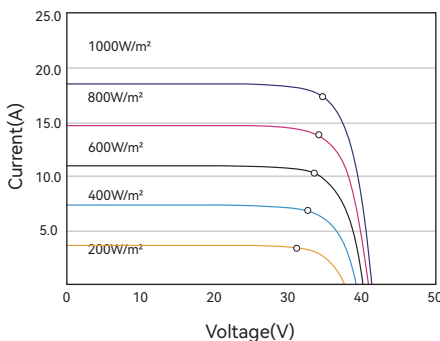
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	35A
Bifaciality	75%-80%

**Packaging**

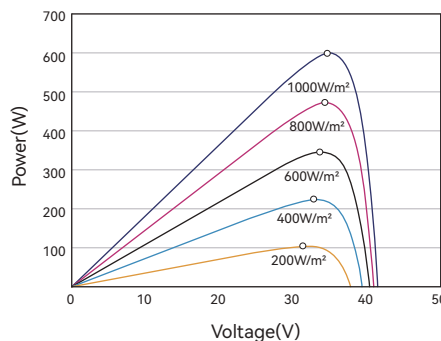
Pcs per Pallet: 36
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Pcs per 40' HC: 648
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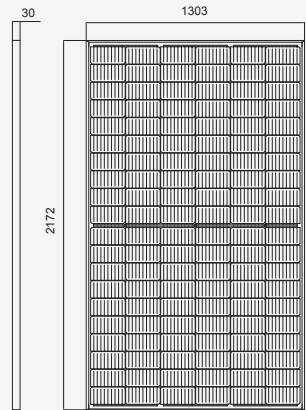
**I-V Curves of PV Module (600W)**



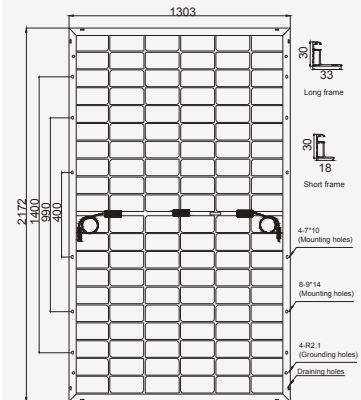
**P-V Curves of PV Module (600W)**



**Dimensions (Unit: mm)**



Front View



Back View