



## Hitouch 6N

HN21N-66HT

680-700W

### TOPCon

Bifacial Module

22.53%

Maximum Efficiency

15 YEARS

Product Warranty



#### 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.

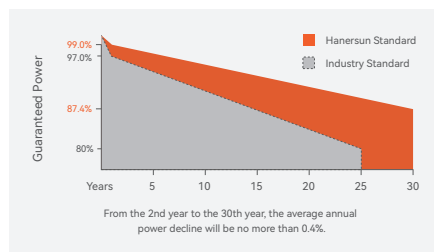


#### Lower Hot Spot and Crack Risk

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	HN21N-66HT680W		HN21N-66HT685W		HN21N-66HT690W		HN21N-66HT695W		HN21N-66HT700W	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	680	516	685	523	690	527	695	530	700	534
Maximum Power Voltage (Vmp)	39.60	37.10	39.80	37.30	40.00	37.50	40.20	37.70	40.40	37.90
Maximum Power Current (Imp)	17.18	13.92	17.22	14.01	17.25	14.04	17.29	14.07	17.33	14.10
Open-circuit Voltage (Voc)	47.40	44.90	47.60	45.10	47.80	45.30	48.00	45.50	48.20	45.70
Short-circuit Current (Isc)	18.18	14.65	18.22	14.68	18.26	14.71	18.30	14.74	18.34	14.77
Module Efficiency(%)	21.89%		22.05%		22.21%		22.37%		22.53%	

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	HN21N-66HT680W	HN21N-66HT685W	HN21N-66HT690W	HN21N-66HT695W	HN21N-66HT700W
Maximum Power (Pmax)	734	739	745	750	755
Maximum Power Voltage (Vmp)	39.60	39.80	40.00	40.20	40.40
Maximum Power Current (Imp)	18.55	18.59	18.63	18.67	18.71
Open-circuit Voltage (Voc)	47.40	47.60	47.80	48.00	48.20
Short-circuit Current (Isc)	19.63	19.67	19.72	19.76	19.80

**Mechanical Parameters**

Solar Cells	Monocrystalline (210mm)
Module Dimensions	2384*1303*35mm
Glass	2mm-2mm
Frame	Anodized Aluminium Alloy
Output Cable	4.0mm <sup>2</sup> , 300/300mm

No. of Cells	132 [2 x (11 x 6) ]
Weight	38.7kg
Encapsulant Material	EVA/POE
J-Box	IP68
Connector	MC4 Compatible

**Temperature Ratings**

NMOT (Nominal operating cell temperature)	43°C(±2°C)
Temperature Coefficient of Pmax	-0.310%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.040%/°C

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

**Operating Parameters**

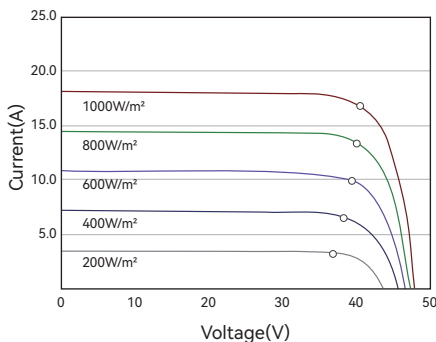
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	35A
Bifaciality	80%-85%

**Packaging**

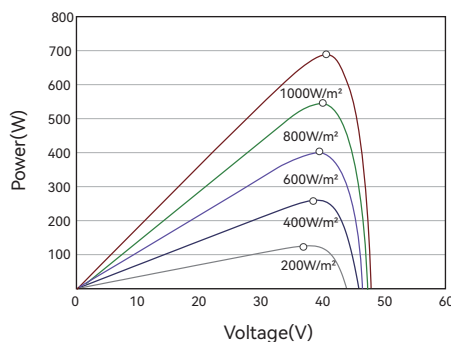
Pcs per Pallet:	31
-----------------	----

Pcs per 40' HC:	558
-----------------	-----

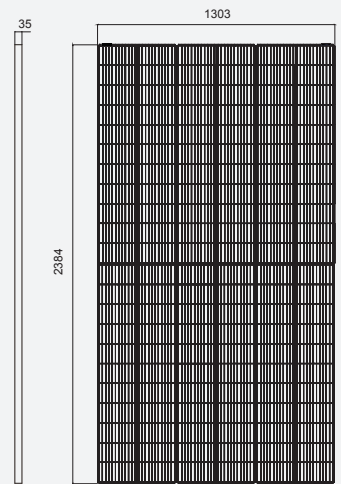
**I-V Curves of PV Module (690W)**



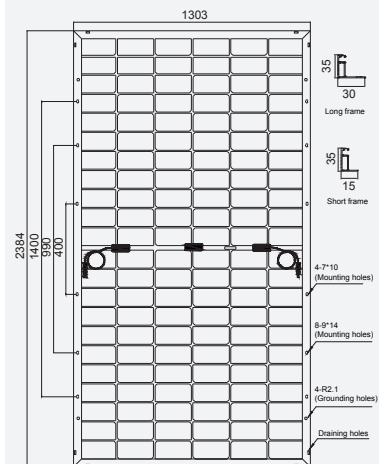
**P-V Curves of PV Module (690W)**



**Dimensions (Unit: mm)**



Front View



Back View