



## Hitouch 6N

HN21-66H

680-700W

### TOPCon

High Efficiency Module

22.53%

Maximum Efficiency

12 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.

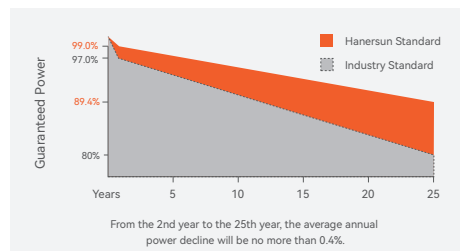


#### Lower Hot Spot and Crack Risk

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

Reduce crack risk by MBB solar cell design.

### Power Warranty



12-year product warranty



25-year linear power output warranty

### Insurance



Munich RE



太平洋保險 CPIC

### Certificates



### About Hanersun

Hanersun is a world leading solar module manufacturer and comprehensive energy solution provider. We provide customers with cutting edge solar modules, and services for the entire project life cycle.

## Electrical Characteristics

Module Type	HN21-66H680W		HN21-66H685W		HN21-66H690W		HN21-66H695W		HN21-66H700W	
Testing Condition	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.

## Mechanical Parameters

Solar Cells	Monocrystalline (210mm)
No. of Cells	132 [2 x (11 x 6) ]
Module Dimensions	2384*1303*35mm
Weight	34.4kg
Glass	3.2mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA/POE
Backsheet	White
Frame	Anodized Aluminium Alloy
J-Box	IP68
Output Cable	4.0mm <sup>2</sup>
(Including Connector)	Length Portrait:300/300mm (can be customized)
Connector	MC4 Compatible

## Temperature Ratings

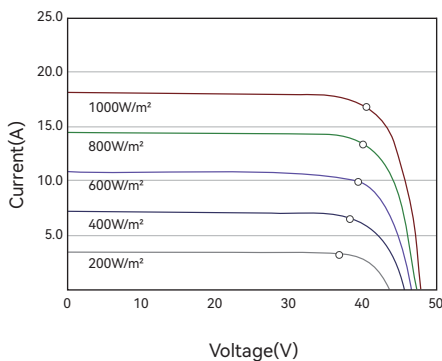
NMOT (Nominal operating cell temperature)	43°C(±2°C)
Temperature Coefficient of Pmax	-0.310%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	+0.040%/°C

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

## Packaging

Pcs per Pallet: 31
Pcs per 40' HC: 558

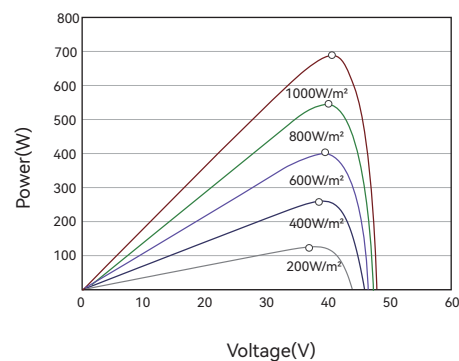
## I-V Curves of PV Module (690W)



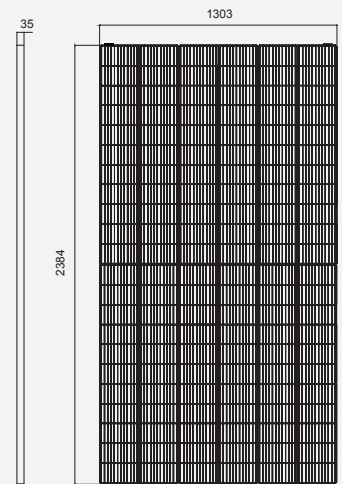
## Operating Parameters

Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	35A
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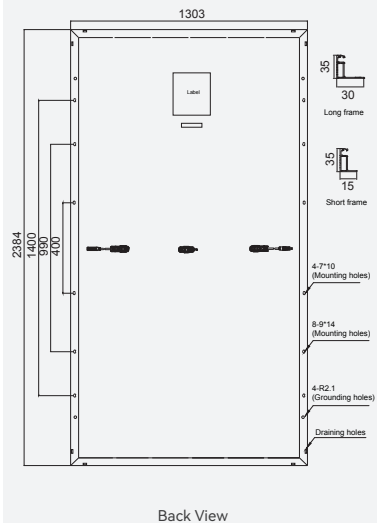
## P-V Curves of PV Module (690W)



## Dimensions (Unit: mm)



Front View



Back View