

## Hitouch 6

CP21-66HT

650-670W

### BIFACIAL

High Efficiency Module

21.6%

Maximum Efficiency

12 YEARS

Product Warranty



#### Higher Power Output

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

Technology enhance stronger 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.

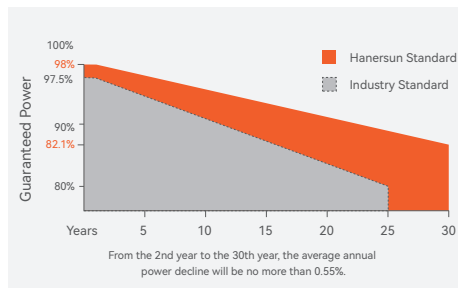


#### Lower Hot Spot and Crack Risk

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



30-year linear power output warranty

### 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	CP21-66HT650W		CP21-66HT655W		CP21-66HT660W		CP21-66HT665W		CP21-66HT670W	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	650	487	655	491	660	495	665	499	670	503
Maximum Power Voltage (Vmp)	37.90	35.50	38.10	35.70	38.30	35.90	38.50	36.10	38.70	36.30
Maximum Power Current (Imp)	17.16	13.74	17.20	13.76	17.24	13.79	17.28	13.83	17.32	13.87
Open-circuit Voltage (Voc)	45.00	42.50	45.20	42.70	45.40	42.90	45.60	43.10	45.80	43.30
Short-circuit Current (Isc)	18.39	14.83	18.43	14.86	18.47	14.89	18.51	14.93	18.55	14.97
Module Efficiency(%)	20.9%		21.1%		21.2%		21.4%		21.6%	

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	CP21-66HT650W	CP21-66HT655W	CP21-66HT660W	CP21-66HT665W	CP21-66HT670W
Maximum Power (Pmax)	715	721	726	732	737
Maximum Power Voltage (Vmp)	37.90	38.10	38.30	38.50	38.70
Maximum Power Current (Imp)	18.88	18.93	18.96	19.02	19.05
Open-circuit Voltage (Voc)	45.00	45.20	45.40	45.60	45.80
Short-circuit Current (Isc)	20.23	20.27	20.32	20.36	20.41

## 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	38.5kg
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	+0.045%/°C

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

## Packaging

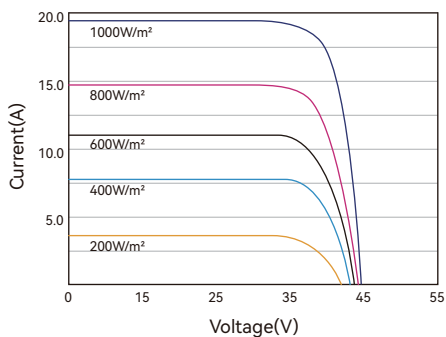
Pcs per Pallet: 31

## Operating Parameters

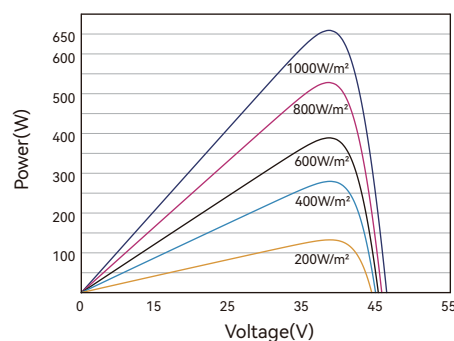
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	35A
Bifacility	80%

Pcs per 40' HC: 558

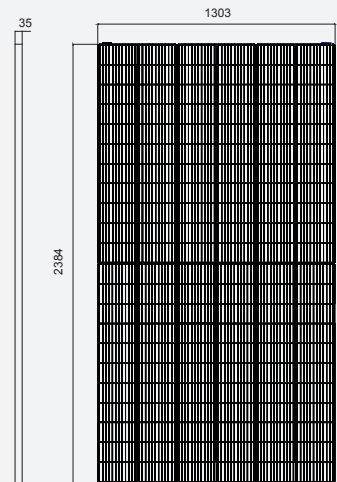
## I-V Curves of PV Module (650W)



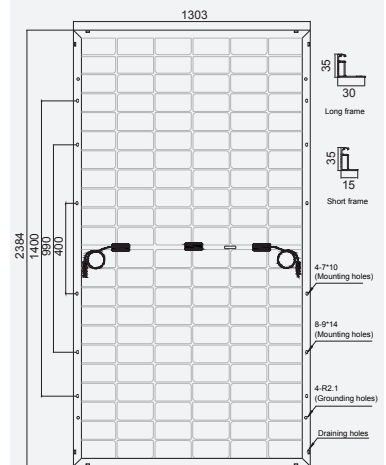
## P-V Curves of PV Module (650W)



## Dimensions (Unit: mm)



Front View



Back View