

## Hitouch 5

CP18-54HT

390-410W

### BIFACIAL

High Efficiency Module

20.99%

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.

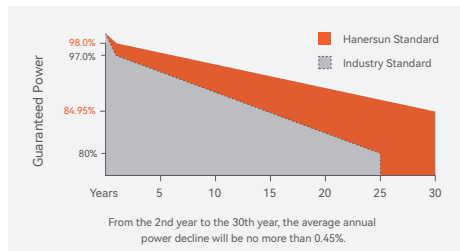


#### Lower Hot Spot and Crack Risk

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

#### 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	CP18-54HT390W		CP18-54HT395W		CP18-54HT400W		CP18-54TH405W		CP18-54TH410W	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	390	286	395	290	400	295	405	298	410	302
Maximum Power Voltage (Vmp)	30.43	28.38	30.63	28.58	30.82	28.78	31.02	28.98	31.22	29.18
Maximum Power Current (Imp)	12.84	10.11	12.90	10.18	12.94	10.25	13.00	10.28	13.06	10.35
Open-circuit Voltage (Voc)	36.54	34.09	36.74	34.29	36.94	34.49	37.14	34.69	37.34	34.89
Short-circuit Current (Isc)	13.49	10.60	13.55	10.65	13.60	10.70	13.65	10.75	13.70	10.80
Module Efficiency(%)	19.97%		20.23%		20.48%		20.74%		20.99%	

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	CP18-54HT390W	CP18-54HT395W	CP18-54HT400W	CP18-54TH405W	CP18-54TH410W
Maximum Power (Pmax)	430	435	440	445	450
Maximum Power Voltage (Vmp)	30.42	30.62	30.82	31.02	31.22
Maximum Power Current (Imp)	14.13	14.20	14.27	14.34	14.44
Open-circuit Voltage (Voc)	36.54	36.74	36.94	37.14	37.34
Short-circuit Current (Isc)	14.90	14.95	15.00	15.05	15.10

## Mechanical Parameters

Solar Cells	Monocrystalline (182mm)
Module Dimensions	1722*1134*30mm
Glass	2mm-2mm
Frame	Anodized Aluminium Alloy
Output Cable	4.0mm <sup>2</sup> , 300/300mm

No. of Cells	108 [2 x (9 x 6) ]
Weight	24.5kg
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	-0.350%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Isc	+0.045%/°C

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

## Packaging

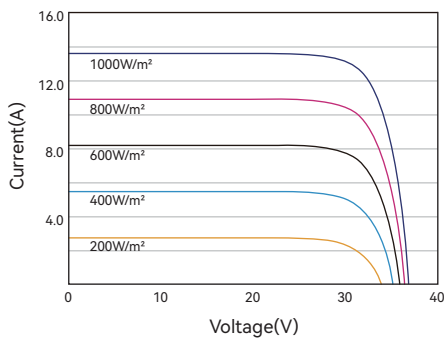
Pcs per Pallet: 36

## Operating Parameters

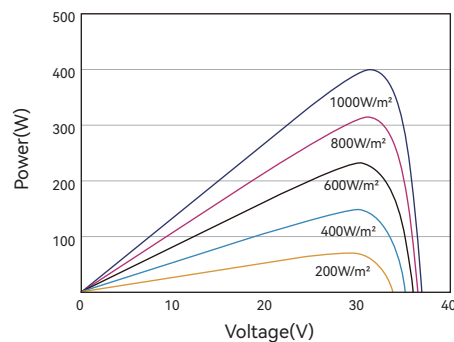
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Series Fuse Rating	30A
Bifaciality	80%

Pcs per 40' HC: 936

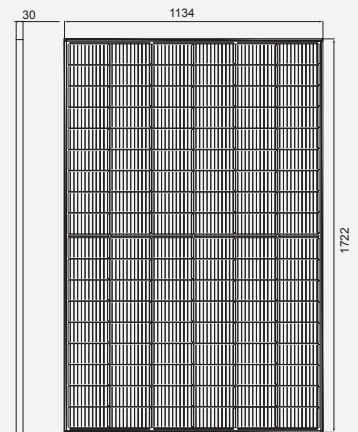
## I-V Curves of PV Module (400W)



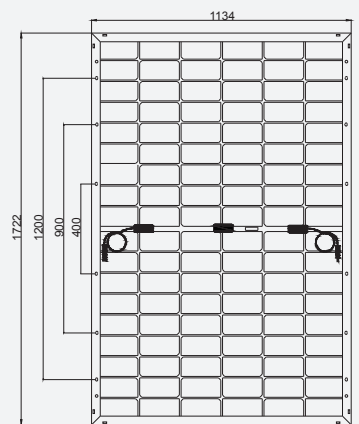
## P-V Curves of PV Module (400W)



## Dimensions (Unit: mm)



Front View



Back View