



# HITOUCH 5

## Product Model

CP18-54H

## Power Range

400-410W

## MONO PERC

High Efficiency

## MBB

Multiple Busbar Technology

## 20.97%

Maximum Efficiency

## 12 YEARS

Hardware Warranty



### Higher Power Output

- Higher module conversion efficiency benefit from bigger wafer and half-cell structure.
- MBB(busbar) technology enhance stronger current collection with lower series resistance.
- Reduce losses of current mismatch.



### Excellent Temperature Coefficient

- Higher power yield with lower operating temperature coefficient.
- Enables better output in hot weather conditions.
- Better performance in weak light conditions.



### Higher reliability

- Positive loading 5400 Pa on front side and 2400 Pa loading on back side.
- Split-type junction box design to guarantee reliability and safety during project operation.
- Excellent anti-PID performance to guarantee safe and reliable operation in extreme weather condition.

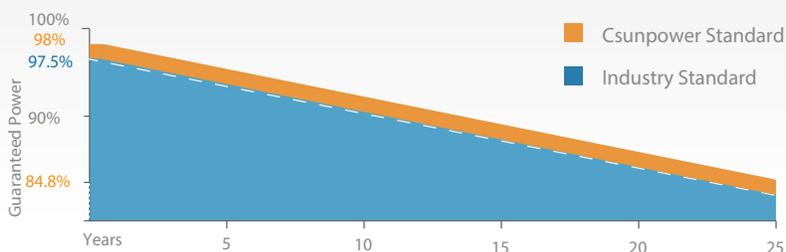


### Lower Hot Spot and Crack Risk

- Reduce hot-spot risk with optimized electrical design and lower operating current.
- crack risk limitation with help of MBB solar cell design.
- Better anti-shading performance.

## Performance Warranty

12 Year Product Warranty · 25 Year Power Warranty



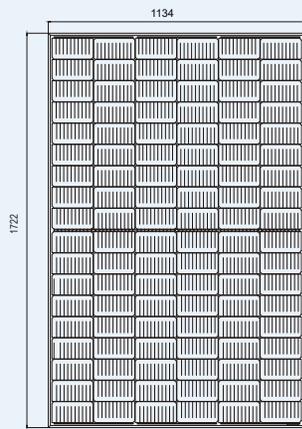
From the 2nd year to the 25th year, the average annual power decline will be no more than 0.54%.

Csunpower(CP) is a world leading solar module manufacturer and comprehensive solar solution provider. We are specialized in high efficient solar module research, manufacturing and distribution to global market with advanced module production capacity available both in China and abroad. Founded in 2004, Headquartered in Nanjing, China. Till the end of 2020, we accumulatively shipped above 10GW solar modules to more than 50 countries, developed and built 500MW solar projects in Asia Pacific region.

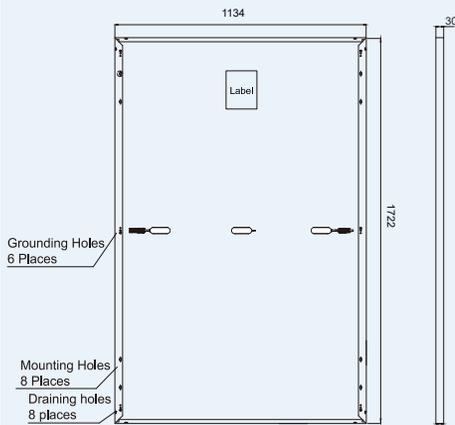
## Comprehensive Products and System Certificates



Dimensions of PV Module (Unit: mm)

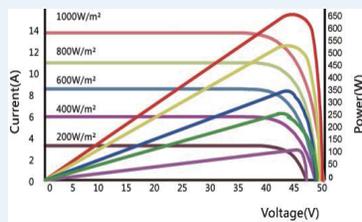


Front View



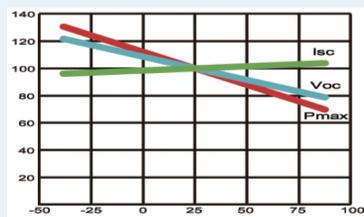
Back View

I-V Curves of PV Module (390W)



Voltage(V)

P-V Curves of PV Module (390W)



Temperature of cells °C

## Electrical Performance (STC)

Maximum Power (Pmax)	400	405	410
Maximum Power Voltage (Vmp)	30.82	31.02	31.22
Maximum Power Current (Imp)	12.94	13.00	13.06
Open-circuit Voltage (Voc)	36.94	37.14	37.34
Short-circuit Current (Isc)	13.60	13.65	13.70
Module Efficiency(%)	20.46%	20.72%	20.97%

 STC: Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5.

\*Measuring tolerance: 0~+5W

## Electrical Data (NMOT)

Maximum Power (Pmax)	295	298	302
Maximum Power Voltage (Vmp)	28.78	28.98	29.18
Maximum Power Current (Imp)	10.25	10.28	10.35
Open-circuit Voltage (Voc)	34.49	34.69	34.89
Short-circuit Current (Isc)	10.70	10.75	10.80

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

## Mechanical Data

Solar Cells	Monocrystalline (182mm)
Cell Orientation	108 [2 x 54]
Module Dimensions	1722*1134*30mm
Weight	21.5kg
Glass	3.2mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	30mm Anodized Aluminium Alloy
J-Box	IP67/IP68
Output Cables (Including Connector)	Photovoltaic Technology Cable 4.0mm <sup>2</sup> , Length:300mm
Connector	MC4 Compatible

## Temperature Ratings

NMOT <sub>(Nominal Module Operating Temperature)</sub>	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

## Maximum Ratings

Operational Temperature	-40°C ~ +85°C
Maximum System Voltage	1500V DC (IEC)
Maximum Overcurrent Protection	25A

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

## Warranty

12 year Product Workmanship Warranty
25 year Power Warranty

## Packaging

Modules per box: 36pieces
40' Container: 936 pieces