

HITOUCH 6

Product Model	Power Range
CP21-66HT	650-670W

Ultra-high Power Output

- Higher module conversion efficiency benefit from bigger wafer 210mm and half-cell structure.
- 12BB(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

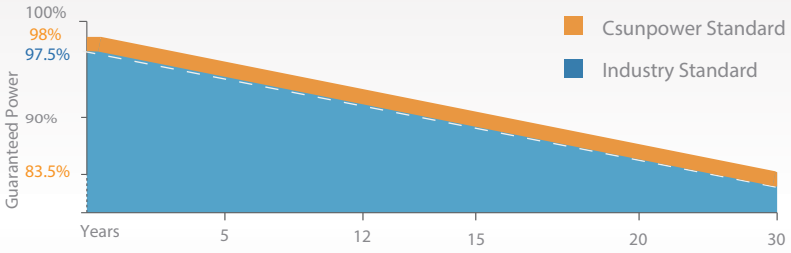
- Reduce hot-spot risk with optimized electrical design and lower operating current.
- crack risk limitation with help of 12BB solar cell design.
- Better anti-shading performance.

Bifacial value-added

- Extra power output up to 30% from rear side generation.
- 12years mechanical guarantee, 30years power output warrantee.
- Elegant visual appearance and application scenarios.

Performance Warranty

12 Year Product Warranty · 30 Year Power Warranty



From the 2nd year to the 30th year, the average annual power decline will be no more than 0.5%.

BIFACIAL

Dual Glass Monocrystalline PERC

MBB

Multiple Busbar Technology

21.6%

Maximum Efficiency

12 YEARS

Hardware Warranty

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

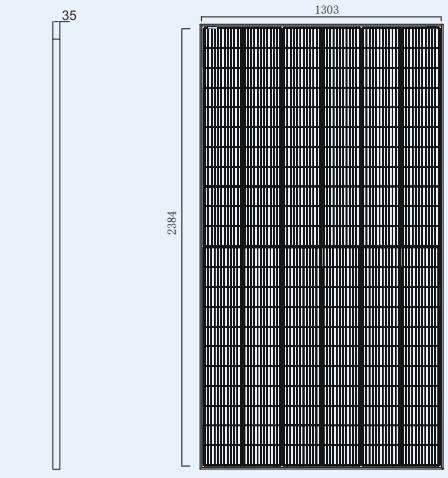
CSUNPOWER®
Power your clean world

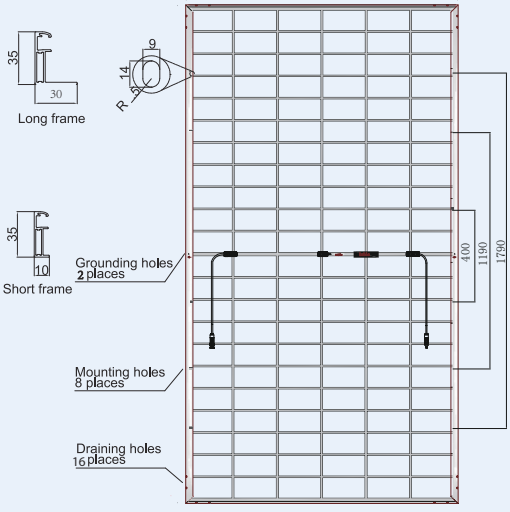
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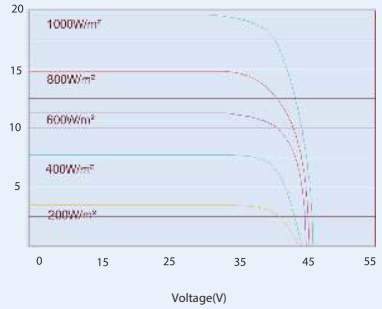
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Dimensions of PV Module (Unit: mm)

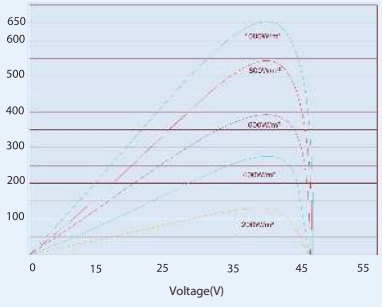




I-V Curves of PV Module (650W)



P-V Curves of PV Module (650W)



Electrical Performance (STC)

Maximum Power (Pmax)	650	655	660	665	670
Maximum Power Voltage (Vmp)	37.88	38.06	38.24	38.42	38.59
Maximum Power Current (Imp)	17.17	17.23	17.27	17.32	17.36
Open-circuit Voltage (Voc)	45.50	45.70	45.90	46.11	49.32
Short-circuit Current (Isc)	18.18	18.23	18.28	18.34	18.39
Module Efficiency(%)	20.9%	21.1%	21.2%	21.4%	21.6%

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
*Measuring tolerance: 0~+5W

Bifacial Output - Backside Power Gain

Maximum Power (Pmax)	676	681	686	691	696
Maximum Power Voltage (Vmp)	38.19	38.36	38.52	38.66	38.79
Maximum Power Current (Imp)	17.69	17.75	17.81	17.87	17.92
Open-circuit Voltage (Voc)	45.83	46.05	46.24	46.44	46.64
Short-circuit Current (Isc)	18.84	18.88	18.91	18.94	18.98

**Bifaciality=Pmax, rear/ Rated Pmax, front

Mechanical Data

Solar Cells	Monocrystalline (210mm) PERC
Cell Orientation	132 [2 x (11 x 6)]
Module Dimensions	2384*1303*35 mm
Weight	40.0kg
Glass - Glass	2mm-2mm (0.13 inches), High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA / POE
Frame	35 mm (1.38 inches) Anodized Aluminium Alloy
J-Box	IP68
Output Cables (Including Connector)	4.0mm² (0.006 inches²), Length: Portrait 300mm(+)/ 300mm(-)
Connector	MC4 Compatible

Temperature Ratings

NMOT (NominalModule Operating Temperature)	45℃(±2℃)
Temperature Coefficient of Pmax	-0.349%/℃
Temperature Coefficient of Voc	-0.274%/℃
Temperature Coefficient of Isc	+0.045%/℃

Maximum Ratings

Operational Temperature	-40℃~+85℃
Maximum System Voltage	1500V DC (IEC)
Maximum Overcurrent Protection	35A
Bifacility**	70% ± 10%

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

Warranty

12 year Product Workmanship Warranty
30 year Power Warranty

Packaging

Modules per box: 31pieces
40' Container: 527pieces