

HITOUCH 3

Product Model

Power Range

CSP16-60HB

320-335W

FULL BLACK

Elegant Design Specially for Residential Application

MBB

Multiple Busbar Technology



Higher Power Output

• Reduce losses of current mismatch.

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



aximum Efficiency

19.85%

12 YEARS

Hardware Warranty

Csunpower(CSP) 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





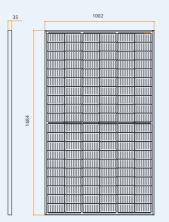
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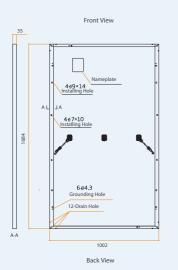
Tel: +86-25-52791766

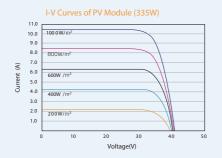
Email: sales@csun-power.com



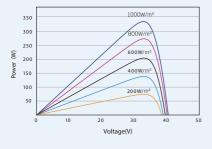
Dimensions of PV Module (Unit: mm)











Electrical Performance (STC)

Maximum Power (Pmax)	320	325	330	335
Maximum Power Voltage (Vmp)	33.4	33.6	33.8	34
Maximum Power Current (Imp)	9.58	9.67	9.76	9.85
Open-circuit Voltage (Voc)	40.3	40.4	40.6	40.7
Short-circuit Current (Isc)	10.2	10.3	10.39	10.48
Module Efficiency(%)	18.96%	19.26%	19.56%	19.85%

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

Electrical Data (NMOT)

Maximum Power (Pmax)	242	246	250	254
Maximum Power Voltage (Vmp)	31.3	31.4	31.6	31.7
Maximum Power Current (Imp)	7.74	7.83	7.91	7.99
Open-circuit Voltage (Voc)	38.0	38.1	38.3	38.4
Short-circuit Current (Isc)	8.21	8.29	8.36	8.44

NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

Mechanical Data

Solar Cells	Monocrystalline (158.75mm)
Cell Orientation	120 [2 x (10x 6)]
Module Dimensions	1684x1002x35mm
Weight	18.7kg
Glass	3.2mm(0.13 inches). High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	Black
Frame	35 mm (1.38 inches) Anodized Aluminium Alloy Black
J-Box	IP68
Output Cables (Including Connector)	Photovoltaic Technology Cable 4.0mm ² (0.006 inches ²),Length:300mm
Connector	MC4 Compatible

Temperature Ratings

NMOT (Nominal Module Operating Temperature)	45°C (±2°C)
Temperature Coefficient of Pmax	-0.33%/°C
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.050%/°C

Maximum Ratings

Operational Temperature	-40 °C ~+85 °C
Maximum System Voltage	1500V DC (IEC)
Maximum Overcurrent Protection	20A

(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 : 30pieces
40' Container : 832 pieces