

Solar power panel

SKU:

EAN:

FEATUES

These three Solar Panels are our key resource for high efficiency, high energy output and long life in severe conditions.

● **High module conversion efficiency**

Half Cell Technology with Module efficiency upto 21.68%.

Withstanding harsh environment, high quality leads to a better sustainable solution even in harsh environments like desert, farm and coastline.

PERC (Passivated Emitter Rear Cell) Technology allows the cell to absorb more light than other conventional cells and improves the modules performance during low light conditions. Shingled Cell Module Design is the way the sliced cells of the panel are connected. Half-cut cells provide several benefits over traditional solar cells. Most importantly, half-cut solar cells offer improved performance and durability. Performance-wise, half-cut cells can increase panel efficiencies by a few percentage points. Shingle solar cells are solar cells which are cut into typically 5 or 6 strips. These strips can be overlaid, like shingles on a roof, to form the electrical connections. Essentially the three key advantages of the shingled solar panel design are they produce more power, improve reliability and are aesthetically pleasing.

● **PID Resistance**

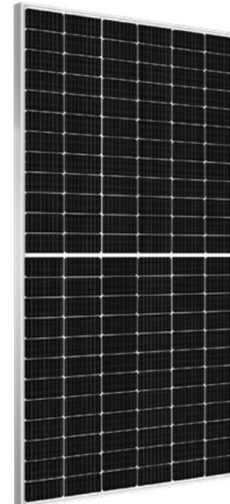
Excellent Anti-PID performance guarantee via optimized mass-production process and materials quality control.

● **Excellent weak light performance**

More power output in weak light condition, such as cloudy, morning and sunset.

● **Extended wind and snow load tests**

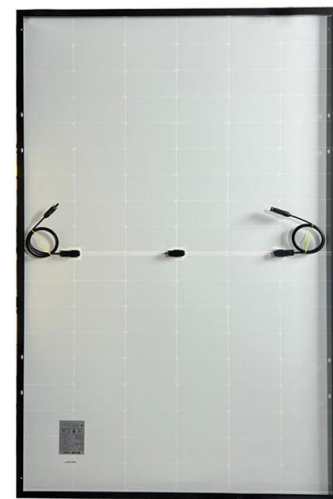
Our modules are certified to withstand extreme wind (2400 Pa) and snow loads (5400 Pa). The power generation panel is suitable for household power supply, mountain areas, schools, car charging in parking lots, factory and warehouse power and other scenarios.



HALF CELL PERC



SHINGLED PERC



MECHANICAL SPECIFICATION

PERC	HALF CELL PERC	SHINGLED PERC	HALF CELL PERC
Power	405~425W	470~490W	540~560W
Cell Type	Monocrystalline	Monocrystalline Perc	Monocrystalline
Cell Dimensions	182*182mm	/	182*91mm
Cell Arrangement	108 (6*18)	/	144 (6*24)
Weight	21.5kg	21.8kg	28.6kg
Module Dimensions	1722*1134*30mm	1899*1096*30mm	2278*1134*35mm
Cable Length	300mm or 1200mm	+500mm/-1100(Vertical),	Portrait 300mm/Landscape 1200mm/Customized

+250mm/-150mm(Horizontal)

Cable Cross Section Size	TUV: 4mm (0.006inches)/UL: 12AWG	TUV: 4mm (0.006inches)/UL: 12AWG	TUV: 4mm (0.006inches)/UL: 12AWG
Front Glass	3.2mm (0.13inches) AR Coating Tempered Glass	3.2mm (0.13inches) AR Coating Tempered Glass	3.2mm (0.13inches) AR Coating Tempered Glass
No. of Bypass Diodes	3	3	3
Packing Configuration	36pcs/carton, 936pcs/40hq(EU),828pcs/40hq(USA)	36pcs/carton, 864pcs/40hq	31pcs/carton, 620pcs/40hq
Frame	Anodized Aluminium Alloy	Anodized Aluminium Alloy	Anodized Aluminium Alloy
Junction Box	IP68	IP68	IP68
Operating condition			
Maximun System Voltage	1000V/1500V/DC(IEC)	1500V DC(IEC)	1000/1500V/DC(IEC)
Operating Temperature	-40°C~ +85°C	-40°C~ +85°C	-40°C~ +85°C
Maximun Series Fuse	25A	25A	25A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa	Snow Loading: 5400Pa/ Wind Loading: 2400Pa	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω	≤0.1Ω	≤0.1Ω
Safety Class	II	II	II
Resistance	≥100MΩ	≥100MΩ	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2	T01/LJQ-3-CSY/MC4/MC4- EVO2	T01/LJQ-3-CSY/MC4/MC4- EVO2
Temperature coefficient			
Temperature Coefficient Pmax	-0.35%/°C	-0.34%/°C	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C	-0.27%/°C	-0.29%/°C
Temperature Coefficient Isc	+0.048%/°C	+0.04%/°C	+0.048%/°C
NMOT	43±2°C	42.3±2°C	45±2°C