

182 SMART H72(H) | Multi Busbar Monocrystalline Half Cell PV Module



Power Output :
 Power Tolerance : 0W ~ +5W
 Maximum Efficiency : 21.7%

Electrical performance parameters | STC

Power Output	Pmax(W)	540	545	550	555	560
Rated Power Maximum Voltage	Vmp(V)	40.80	40.90	41.00	41.10	41.20
Rated Power Maximum Current	Imp(A)	13.27	13.36	13.45	13.54	13.63
Open Circuit Voltage	Voc(V)	49.50	49.60	49.70	49.80	49.90
Short Circuit Current	Isc(A)	13.85	13.94	14.03	14.12	14.21
Module Efficiency	(%)	20.9	21.1	21.3	21.5	21.7
Power Tolerance	(W)	0 ~ +5W				

* STC : 1000W/m² irradiance, 25°C module temperature, AM1.5 spectrum.

Power measurement error +/- 3%

Electrical performance parameters | NMOT

Power output	Pmax (W)	408.8	412.6	416.4	420.1	423.9
Rated Power Maximum Voltage	Vmp (V)	37.82	37.91	38.00	38.10	38.19
Rated Power Maximum Current	Imp (A)	10.81	10.89	10.96	11.04	11.11
Open Circuit Voltage	Voc (V)	46.73	46.82	46.92	47.01	47.11
Short Circuit Current	Isc (A)	11.08	11.15	11.22	11.30	11.37

* NMOT:800W/m² irradiance, 20°C module temperature, 1m/s wind speed.

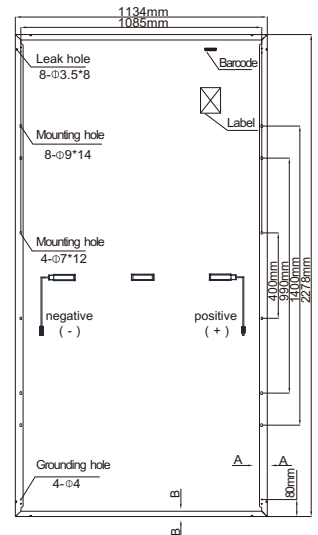
Power measurement error +/- 3%

Structure Features

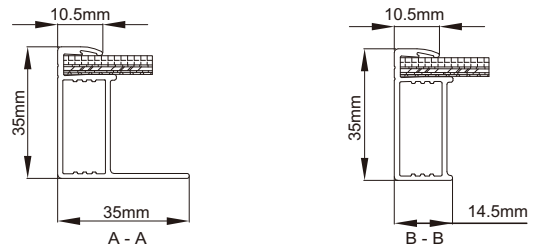
Solar Cell	182MONO(Half Cell)
Solar Cell Array	144 pcs(6×24)
Module Dimension	2278×1134×35mm
Weight	28.3 kgs
Glass	3.2 mm (0.13 inches) highly transparent anti-reflection coating tempered glass
Back sheet	White
Frame	Anodized Aluminum Alloy
Junction Box	IP68 rated
Cable	4mm ² , L=300 mm, PV cable
Diode Quantity	3
Wind Pressure/Snow Pressure	2400pa / 5400pa
Connector	MC4 Compatible

* More details please read the installation manual.

Module Dimension



Back View



Temperature Characteristics

Solar Cells Rated Working Temperature	44±2°C
Temperature Coefficient (Isc)	+0.06%/°C
Temperature Coefficient (Voc)	-0.35%/°C
Temperature Coefficient (Pmax)	-0.38%/°C

Maximum Ratings

Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	25A

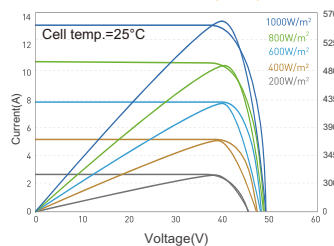
Optional

- Connector Original MC4
- Cable length 1000mm 900mm
- Frame Black
- Back sheet color Black Transparency

Packaging

- Number of modules per pallet 31 pcs
- 17.5*2.8m Flatbed loading 930 pcs
- 13.0*2.35m Flatbed loading 682 pcs
- Standard container 40HQ 620 pcs

I-V curves/P-V curves of module under different irradiation(545w)



I-V curves of module under different temperature(545w)

