

182 SMART H72(DH)-DGB | Multi Busbar Monocrystalline Bifacial Double Glass Half Cell PV Module

Power Output :
 Power Tolerance : 0W ~ +5W
 Maximum Efficiency : 21.5%

Electrical performance parameters | STC

Power Output	Pmax(W)	535	540	545	550	555
Rated Power Maximum Voltage	Vmp(V)	41.00	41.10	41.30	41.50	41.70
Rated Power Maximum Current	Imp(A)	13.07	13.13	13.19	13.25	13.31
Open Circuit Voltage	Voc(V)	49.60	49.70	49.90	50.10	50.30
Short Circuit Current	Isc(A)	13.83	13.89	13.95	14.01	14.07
Module Efficiency	(%)	20.7	20.9	21.1	21.3	21.5
Power Tolerance	(W)	0 ~ +5W				

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

Power measurement error +/- 3%

Electrical characteristics with different rear side power gain(545W)

Double side power gain		10%	15%	20%	25%
Power output	Pmax(W)	560	627	654	681
Open Circuit Voltage	Voc (V)	49.92	535W 49.92	49.92	49.92
Short Circuit Current	Isc (A)	15.35	16.04	16.74	17.44
Rated Power Maximum Voltage	Vmp(V)	41.32	41.32	41.32	41.32
Rated Power Maximum Current	Imp(A)	14.51	15.17	15.83	16.49

* Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

Electrical performance parameters | NMOT

Power output	Pmax (W)	404.5	408.2	412.0	415.8	419.6
Rated Power Maximum Voltage	Vmp (V)	38.01	38.10	38.29	38.47	38.66
Rated Power Maximum Current	Imp (A)	10.65	10.70	10.75	10.80	10.85
Open Circuit Voltage	Voc (V)	47.12	47.22	47.41	47.60	47.79
Short Circuit Current	Isc (A)	11.06	11.11	11.16	11.21	11.26

* 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	2278×1134×30mm
Weight	32.7 kgs
Glass	2.0mm highly transparent anti-reflection coating tempered glass
Back sheet	2.0mm highly transparent tempered glass
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.

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	30A

Optional

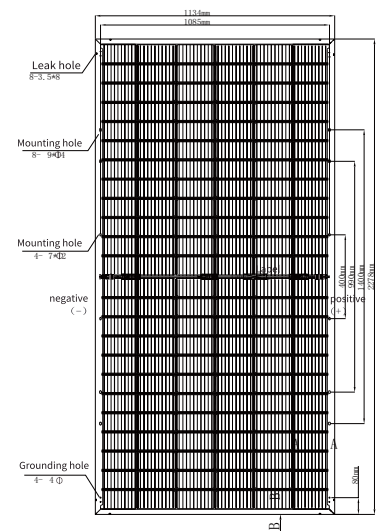
- Connector Original MC4
- Cable length 1000mm 900mm
- Frame Black
- Glass type Glazed Transparency

Packaging

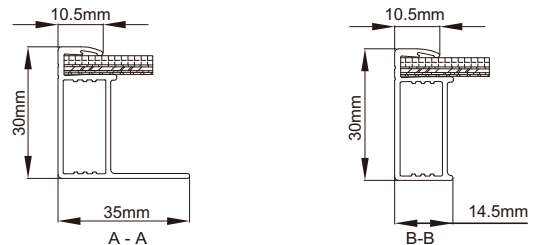
- Number of modules per pallet 36 pcs
- 17.5'×2.8m Flatbed loading 864pcs
- 13.0'×2.35m Flatbed loading 720pcs
- Standard container 40HQ 720 pcs



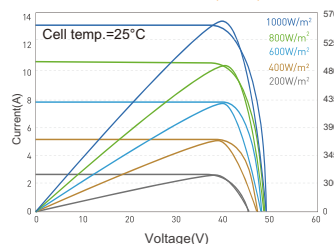
Module Dimension



Back View



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



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

