

182 QN4MxxxH66(DH)-DGB

Monocrystalline Bifacial Double Glass Half Cell PV Module

Power Output : 475W-500W
 Power Tolerance : 0W ~ +5W
 Maximum Efficiency : 21.3%

Highlights

- Assembled with multi-busbar cells**, reduce shading effect on the energy generation, lower risk of hot spot
- Pass the test for weather resistance in harsh environments (salt mist, ammonia corrosion and sand).
- Process optimization of high efficiency PERC solar cell and strict control on raw materials to ensure highly resistance against PID of PV module.
- Better mechanical loading tolerance with the test front side 5400pa and back side 2400pa.
- Series and parallel design, reduce the series resistance RS of module, reduce the loss of internal electrical performance, and improve the power generation capacity of whole system.
- Additional safety Fire class Acertified.

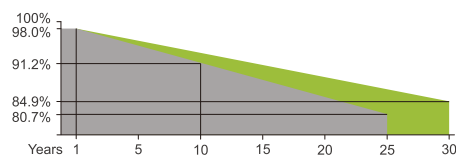


Optional

- Connector Original MC4
- Cable length 1000mm 900mm
- Frame Black
- Solar Module Dimension 2067x1127x6mm
- Back sheet color Glazed Transparency

Packaging

- Number of modules per pallet 31 pcs
- 17.5*2.8m Flatbed loading 992 pcs
- 13.0*2.35m Flatbed loading 744 pcs
- 40HQ Standard container 682 pcs



Electrical performance parameters | STC

Power Output	Pmax(W)	475	480	485	490	495	500
Rated Power Maximum Voltage	Vmp(V)	37.63	37.78	37.93	38.08	38.23	38.38
Rated Power Maximum Current	Imp(A)	12.63	12.71	12.79	12.87	12.95	13.03
Open Circuit Voltage	Voc(V)	44.80	44.95	45.10	45.25	45.40	45.55
Short Circuit Current	Isc(A)	13.51	13.59	13.67	13.74	13.82	13.90
Module Efficiency	(%)	20.2	20.4	20.6	20.9	21.1	21.3
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)	355	359	363	367	371	375
Rated Power Maximum Voltage	Vmp (V)	34.46	34.60	34.86	34.99	35.12	35.26
Rated Power Maximum Current	Imp (A)	10.30	10.37	10.42	10.48	10.56	10.63
Open Circuit Voltage	Voc (V)	41.22	41.35	42.08	42.21	42.43	42.57
Short Circuit Current	Isc (A)	11.07	11.13	11.20	11.26	11.33	11.40

* NMOT:800W/m2 irradiance, 20°C module temperature, 1m/s wind speed.
 Power measurement error +/- 3%

Electrical characteristics with different rear side power gain (500W)

Double side power gain	Power output Pmax(W)	Open Circuit Voltage - Voc(V)	Short Circuit Current - Isc(A)	Rated Power Maximum Voltage - Vmp(V)	Rated Power Maximum Current - Imp(A)
10%	550	45.55	15.30	38.38	14.33
15%	575	45.55	15.99	38.38	14.98
20%	600	45.55	16.68	38.38	15.64
25%	625	45.55	17.38	38.38	16.29

* 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.
 Power measurement error +/- 3%

Structure Features

Solar Cell	182MONO(Half Cell)
Solar Cell Array	132 pcs(6×22)
Module Dimension	2073×1133×35mm
Weight	31.1 kg
Glass	2.0 mm highly transparent anti-reflection coating tempered glass
Back sheet	2.0 mm 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	2400pa
Snow Pressure	5400pa
Connector	MC4 Compatible

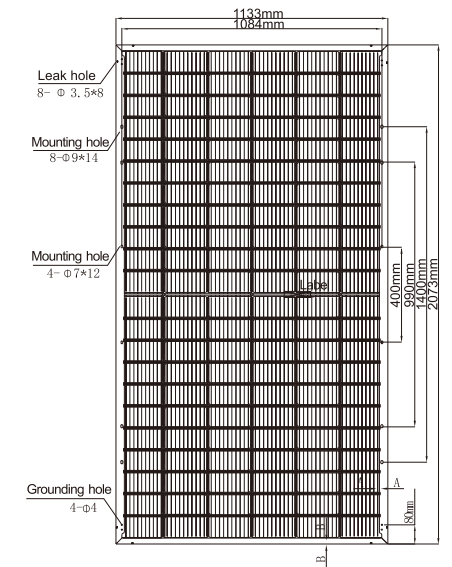
Temperature Characteristics

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

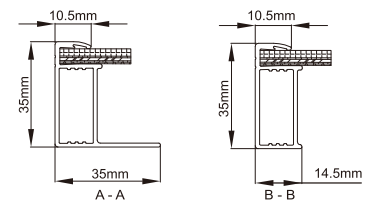
Maximum Ratings

Working Temperature	-40~+85°C
Maximum System Voltage	1500V DC
Maximum Fuse Rated Current	30A

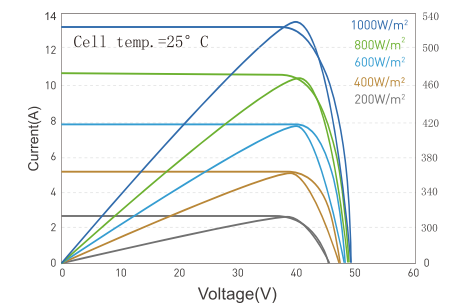
Module Dimension



Back View



I-V curves/P-V curves of module under different irradiation(500w)



I-V curves of module under different temperature(500w)

