

158.75 QN60P-H | Polycrystalline Half Cell PV Module

Power Output : 280W - 295W
 Power Tolerance : 0W ~ +5W
 Maximum Efficiency : 17.5%

Highlights

Superior silicon cells, High efficiency solar panel, Most cost-effective and ideal option for power station.

Pass the test for weather resistance in harsh environments (salt mist, ammonia corrosion and sand).

PID Excellent encapsulating materials and strict production process to ensure highly resistance against PID (Potential Induced Degradation) of PV module.

LID Lower oxygen and carbon content result in lower LID.

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.

Cutting solar cell technology, which significantly reduces string current and module damage, it is good choice for projects in high temperate areas.

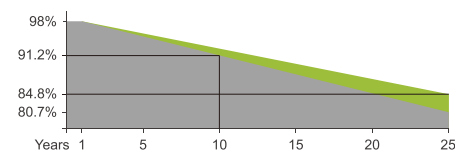


Optional

- Connector Original MC4
- Cable length 1000mm 900mm
- Frame Black
- Solar Module Dimension 1686x1000x40mm
- Back sheet color Black Transparency

Packaging

- Number of modules per pallet 31 pcs
- Standard container -20GP 372 pcs
- Standard cont -40HQ 868 pcs



Electrical performance parameters | STC

Power Output	Pmax(W)	280	285	290	295
Rated Power Maximum Voltage	Vmp(V)	31.3	31.7	32.0	32.3
Rated Power Maximum Current	Imp(A)	8.95	9.00	9.07	9.14
Open Circuit Voltage	Voc(V)	38.5	38.7	39.0	39.3
Short Circuit Current	Isc(A)	9.57	9.65	9.73	9.81
Module Efficiency	(%)	16.6	16.9	17.2	17.5
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)	208.88	212.61	216.34	220.07
Rated Power Maximum Voltage	Vmp (V)	29.26	29.63	29.91	30.19
Rated Power Maximum Current	Imp (A)	7.14	7.18	7.23	7.29
Open Circuit Voltage	Voc (V)	35.88	36.06	36.34	36.62
Short Circuit Current	Isc (A)	7.73	7.79	7.85	7.92

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

Structure Features

Solar Cell	POLY
Solar Cell Array	120 pcs(6×20)
Module Dimension	1686×1000×35mm
Weight	18.7 kg
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

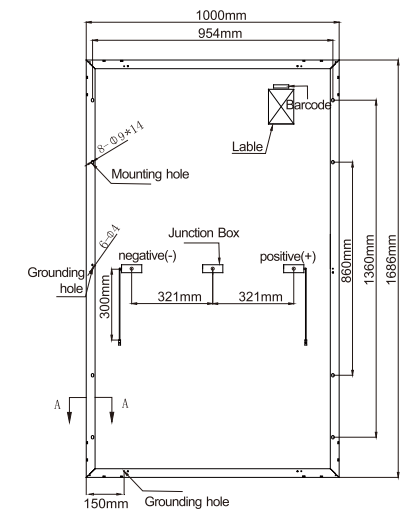
Temperature Characteristics

Solar Cells Rated Working Temperature	44±2°C
Temperature Coefficient (Isc)	+0.057%/°C
Temperature Coefficient (Voc)	-0.31%/°C
Temperature Coefficient (Pmax)	-0.39%/°C

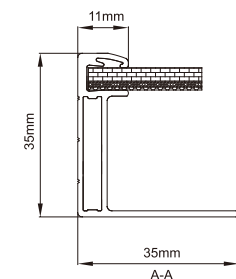
Maximum Ratings

Working Temperature	-40~+85°C
Maximum System Voltage	1000V DC
	1500V DC
Maximum Fuse Rated Current	15A

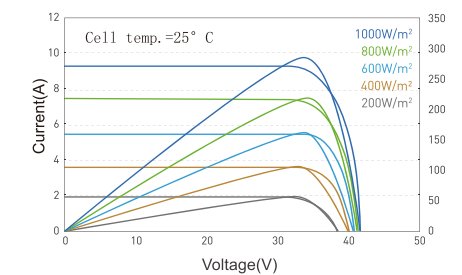
Module Dimension



Back View



I-V curves/P-V curves of module under different irradiation(295w)



I-V curves of module under different temperature(295w)

