

158.75 QN60P | Polycrystalline PV Module

Power Output : 275W - 290W
 Power Tolerance : 0W ~ +5W
 Maximum Efficiency : 17.8%

Highlights

- Superior silicon cells, High efficiency solar panel, Most cost-effective and ideal option for power station.
- Excellent encapsulating materials and strict production process to ensure highly resistance against PID (Potential Induced Degradation) of PV module.
- High transparent self-clean tempered glass to increase the light adoption and effectively reduce the power loss which is caused by dust.
- Pass the test for weather resistance in harsh environments (salt mist, ammonia corrosion and sand).
- Reinforced frame with more remarkable loading capacity.
- 1500V highest affordable system voltage to effectively reduce the BOS cost.

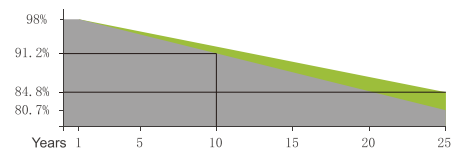


Optional

- Connector Original MC4
- Cable length 1000mm 900mm
- Frame Black
- Solar Module Dimension 1666x1002x40mm
- 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)	275	280	285	290
Rated Power Maximum Voltage	Vmp(V)	32.0	32.3	32.5	32.8
Rated Power Maximum Current	Imp(A)	8.61	8.71	8.79	8.85
Open Circuit Voltage	Voc(V)	39.1	39.4	39.6	39.9
Short Circuit Current	Isc(A)	9.15	9.26	9.31	9.45
Module Efficiency	(%)	16.9	17.2	17.5	17.8
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)	204.45	207.90	211.39	215.92
Rated Power Maximum Voltage	Vmp (V)	29.00	29.20	29.40	29.70
Rated Power Maximum Current	Imp (A)	7.05	7.12	7.19	7.27
Open Circuit Voltage	Voc (V)	35.80	36.00	36.10	36.90
Short Circuit Current	Isc (A)	7.57	7.64	7.70	7.83

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

Structure Features

Solar Cell	POLY
Solar Cell Array	60 pcs
Module Dimension	1666 × 1002 × 35mm
Weight	18.5 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=900 mm, PV cable
Diode Quantity	3
Wind Pressure/Snow Pressure	2400pa / 5400pa
Connector	MC4 Compatible

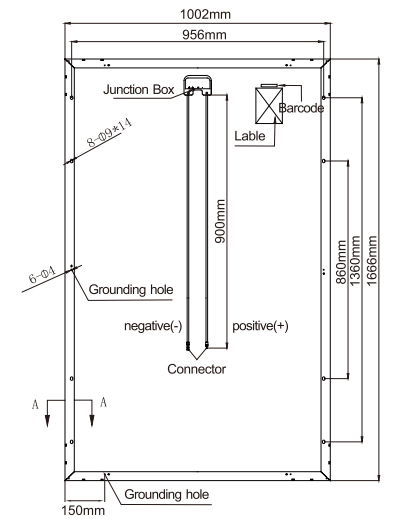
Temperature Characteristics

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

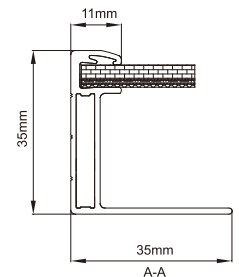
Maximum Ratings

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

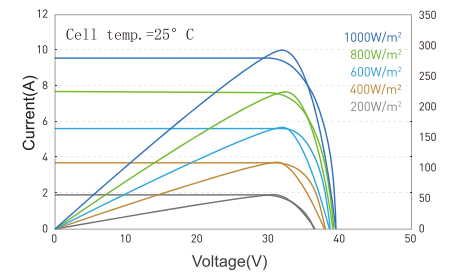
Module Dimension



Back View



I-V curves/P-V curves of module under different irradiation(290w)



I-V curves of module under different temperature(290w)

