

158.75 QN60M | Monocrystalline PV Module

Power Output : 310W - 330W
 Power Tolerance : 0W ~ +5W
 Maximum Efficiency : 19.8%

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.

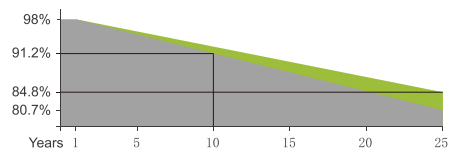


Optional

- 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) | 310 | 315 | 320 | 325 | 330 |
|-----------------------------|---------|-------|-------|-------|-------|-------|
| Rated Power Maximum Voltage | Vmp(V) | 32.80 | 33.00 | 33.20 | 33.41 | 33.61 |
| Rated Power Maximum Current | Imp(A) | 9.46 | 9.55 | 9.64 | 9.73 | 9.82 |
| Open Circuit Voltage | Voc(V) | 39.90 | 40.10 | 40.30 | 40.50 | 40.70 |
| Short Circuit Current | Isc(A) | 9.96 | 10.04 | 10.12 | 10.20 | 10.28 |
| Module Efficiency | (%) | 18.6 | 18.9 | 19.2 | 19.5 | 19.8 |
| 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) | 230.43 | 233.78 | 237.47 | 240.87 | 244.61 |
|-----------------------------|----------|--------|--------|--------|--------|--------|
| Rated Power Maximum Voltage | Vmp (V) | 30.40 | 30.60 | 30.80 | 31.00 | 31.20 |
| Rated Power Maximum Current | Imp (A) | 7.58 | 7.64 | 7.71 | 7.77 | 7.84 |
| Open Circuit Voltage | Voc (V) | 37.00 | 37.20 | 37.40 | 37.50 | 37.70 |
| Short Circuit Current | Isc (A) | 8.05 | 8.12 | 8.18 | 8.25 | 8.32 |

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

Structure Features

| | |
|-----------------------------|--|
| Solar Cell | MONO |
| 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 |

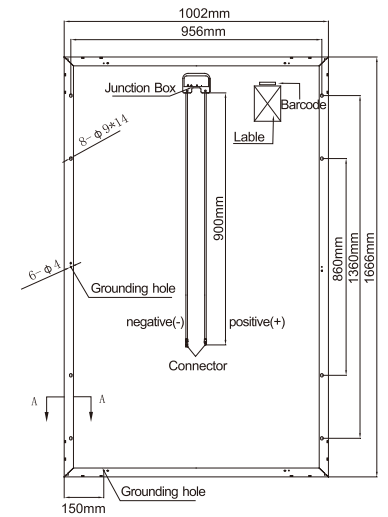
Temperature Characteristics

| | |
|---------------------------------------|------------|
| 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 |

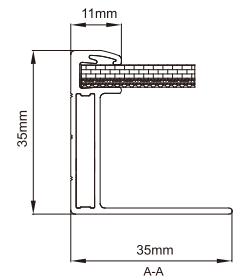
Maximum Ratings

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

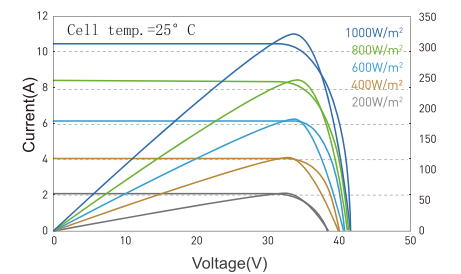
Module Dimension



Back View



I-V curves/P-V curves of module under different irradiation(320w)



I-V curves of module under different temperature(320w)

