

Q-SUN solar

Crystal N8

Mono-Crystalline
570~590W

0~+5W POWER TOLERANCE

- High efficiency N - type Double glass module
- Stronger properties, PID resistance, reduced hot spot loss
- Higher module power, lower BOS costs
- Harsh environmental adaptation
- Bifacial module, more power generation

15 years material warranty **15**

30 years power linear warranty **30**

144

HALF-CUT
CELLS

182
x183.75
mm

RECTANGULAR
CELLS

**A sound quality management
system and product certification**

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



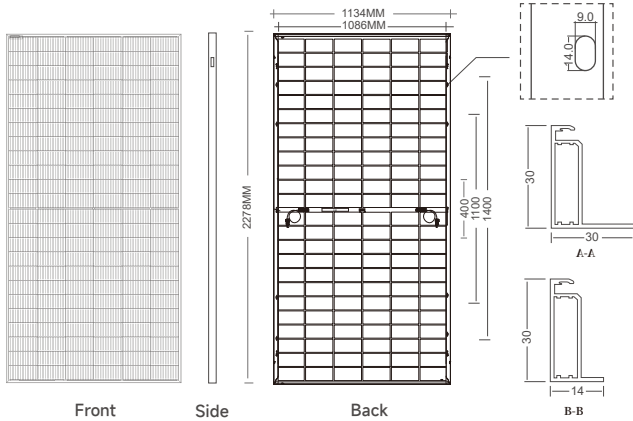
22.8%
MAXIMUM CONVERSION

0~+5W
POWER TOLERANCE

0.4%
0.4% PER YEAR OVER 30 YEARS

Half-Cut Module
LOWER TEMPERATURE COEFFICIENT

Mechanical Diagrams



Length: ±2mm Width: ±2mm Thickness: ±1mm Hole pitch: ±2mm

Packing Standard

Container capacity(40HQ)

Pallet size (mm) 36pcs/pallet, 20pallets/ctns, 720pcs/ctn

Electrical Parameters At BNPI

| | | | | | |
|--------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax) | 628 | 634 | 639 | 645 | 650 |
| Open Circuit Voltage (Voc) | 51.22 | 51.47 | 51.70 | 51.93 | 52.16 |
| Short Circuit Current (Isc135) | 15.53 | 15.59 | 15.66 | 15.72 | 15.78 |
| Maximum Power Voltage (Vmp) | 43.21 | 43.43 | 43.64 | 43.85 | 44.06 |
| Maximum Power Current (Imp) | 14.54 | 14.60 | 14.65 | 14.71 | 14.76 |
| Short Circuit Current (Isc300) | 17.30 | 17.37 | 17.44 | 17.51 | 17.58 |

Electrical Parameters

| Module Type | QN-570HT-06 | | QN-575HT-06 | | QN-580HT-06 | | QN-585HT-06 | | QN-590HT-06 | |
|-----------------------------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 570 | 431 | 575 | 435 | 580 | 438 | 585 | 442 | 590 | 446 |
| Open Circuit Voltage (Voc) | 51.22 | 48.66 | 51.47 | 48.89 | 51.70 | 49.11 | 51.93 | 49.33 | 52.16 | 49.55 |
| Short Circuit Current (Isc) | 14.08 | 11.27 | 14.14 | 11.31 | 14.20 | 11.36 | 14.26 | 11.41 | 14.32 | 11.46 |
| Maximum Power Voltage (Vmp) | 43.21 | 40.83 | 43.43 | 41.04 | 43.64 | 41.24 | 43.85 | 41.44 | 44.06 | 41.64 |
| Maximum Power Current (Imp) | 13.19 | 10.55 | 13.24 | 10.59 | 13.29 | 10.63 | 13.34 | 10.67 | 13.39 | 10.71 |
| Module Efficiency -ηm (%) | 22.1 | | 22.3 | | 22.5 | | 22.6 | | 22.8 | |

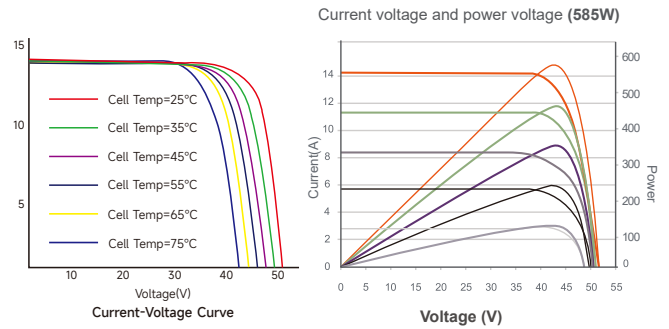
Load Capacity

| | |
|----------------------|-----------------------------------|
| Max Load Front | 5400Pa |
| Max Load Back | 2400Pa |
| Through Hail Testing | 25mm Diameter, Impact Speed 23m/s |

Temperature Coefficient (STC Test)

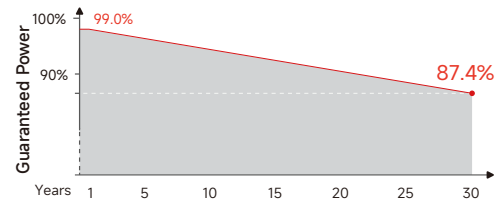
| | |
|---------------------------------|-----------|
| Temperature Coefficient of Isc | +0.04%/°C |
| Temperature Coefficient of Voc | -0.25%/°C |
| Temperature Coefficient of Pmax | -0.30%/°C |

Curve Figure



Specification

| | |
|--------------|---------------------------------|
| Cell Type | mono crystalline 16BB |
| No. of Cells | 144 [2x(6x12)] pcs |
| Dimension | 2278x1134x30mm |
| Weight | 31.2kg |
| Front Glass | 2.0 mm |
| Back Glass | 2.0 mm |
| Junction Box | IP68 |
| Cable Length | 300mm,1200mm(can be customized) |



Operation Parameters

| | |
|---|---------------|
| Operational Temperature | -40°C~+85°C |
| Maximum System Voltage | 1500VDC (IEC) |
| Maximum Series Fuse Rating | 30A |
| Power Tolerance | 0~+5W |
| Nominal Operating Cell Temperature (NOCT) | 42±2°C |
| Safety Class | Class II |
| Refer.Bifacial Factor | 75±10% |

STC : Irradiance:1000W/m² | Battery temperature: 25°C | Atmospheric=1.5

NOCT: Irradiance:800W/m² | Ambien temperature: 20°C | Atmospheric=1.5 | Wind speed 1m/s

BNPI: Rear Irradiance 135W/m² | Bifaciality coefficient 80%±5%

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