

Mercury Series

Mono-Crystalline 700-720W

0~+5W POWER TOLERANCE

- High efficiency N - type double glass solar 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**

132

HALF-CUT
CELLS

210
x210
mm

SQUARE
CELLS

Comprehensive 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



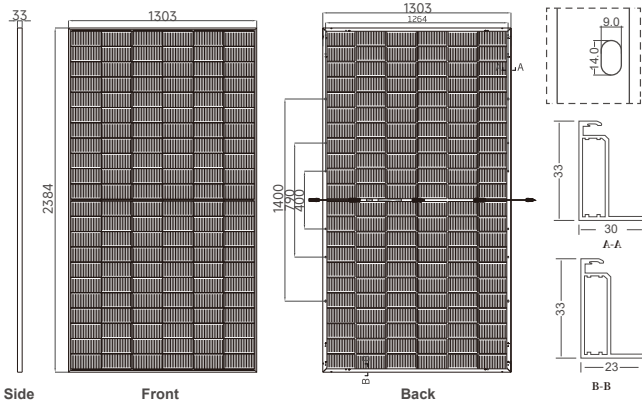
23.2%
MAXIMUM CONVERSION

0~+5W
POWER TOLERANCE

0.4%
0.4% PER YEAR OVER 2-30 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) : 34pcs/pallet, 18pallets/ctns, 612pcs/ctn

Electrical Parameters At BNPI

| Parameter | 772 | 777 | 783 | 789 | 795 |
|--------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax) | 772 | 777 | 783 | 789 | 795 |
| Open Circuit Voltage (Voc) | 48.13 | 48.32 | 48.51 | 48.68 | 48.86 |
| Short Circuit Current (Isc135) | 20.30 | 20.36 | 20.43 | 20.49 | 20.55 |
| Maximum Power Voltage (Vmp) | 40.44 | 40.61 | 40.78 | 40.95 | 41.12 |
| Maximum Power Current (Imp) | 19.09 | 19.14 | 19.20 | 19.25 | 19.30 |
| Short Circuit Current (Isc300) | 22.61 | 22.68 | 22.75 | 22.82 | 22.89 |

Electrical Parameters

| Module Type | QN-700HT-01 | | QN-705HT-01 | | QN-710HT-01 | | QN-715HT-01 | | QN-720HT-01 | |
|-----------------------------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power (Pmax) | 700 | 529 | 705 | 533 | 710 | 537 | 715 | 541 | 720 | 544 |
| Open Circuit Voltage (Voc) | 48.13 | 45.73 | 48.32 | 45.91 | 48.51 | 46.08 | 48.60 | 46.17 | 48.69 | 46.26 |
| Short Circuit Current (Isc) | 18.41 | 14.73 | 18.47 | 14.77 | 18.52 | 14.82 | 18.58 | 14.87 | 18.64 | 14.91 |
| Maximum Power Voltage (Vmp) | 40.44 | 38.22 | 40.61 | 38.38 | 40.78 | 38.54 | 40.95 | 38.70 | 41.12 | 38.86 |
| Maximum Power Current (Imp) | 17.31 | 13.85 | 17.36 | 13.89 | 17.41 | 13.93 | 17.46 | 13.97 | 17.51 | 14.01 |
| Module Efficiency -ηm (%) | 22.5 | | 22.7 | | 22.9 | | 23.0 | | 23.2 | |

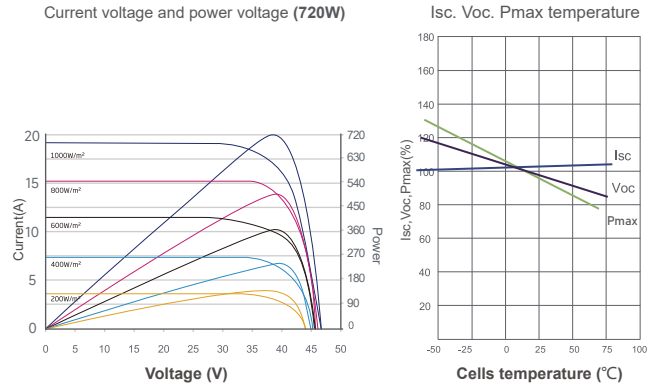
Load Capacity

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

Temperature Coefficient (STC Test)

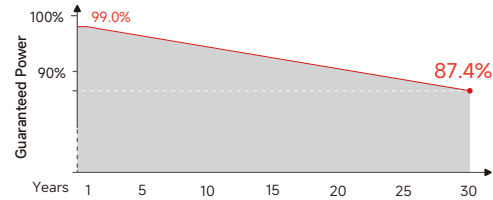
| | |
|---------------------------------|-----------|
| Temperature Coefficient of Isc | +0.04%/°C |
| Temperature Coefficient of Voc | -0.25%/°C |
| Temperature Coefficient of Pmax | -0.30%/°C |

Curve Figure



Specification

| | |
|--------------|---------------------------------|
| Cell Type | Mono Crystalline |
| No. of Cells | 132[2x(6x11)] pcs |
| Dimension | 2384x1303x33mm |
| Weight | 37.8kg |
| Front Glass | 2.0mm |
| Back Glass | 2.0mm |
| 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 | 35A |
| Power Tolerance | 0~+5W |
| Nominal Operating Cell Temperature (NOCT) | 42±2°C |
| Safety Class | class I |
| Refer.Bifacial Factor | 80±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%

D5 Greenland Window Building
Nonghua Road
Yuhuatai District, Nanjing, China
www.q-sunsolar.com

