



# Mercury Series

Mono-Crystalline  
**600~620W**

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**

**132**

HALF-CUT  
CELLS

**182**  
x199  
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



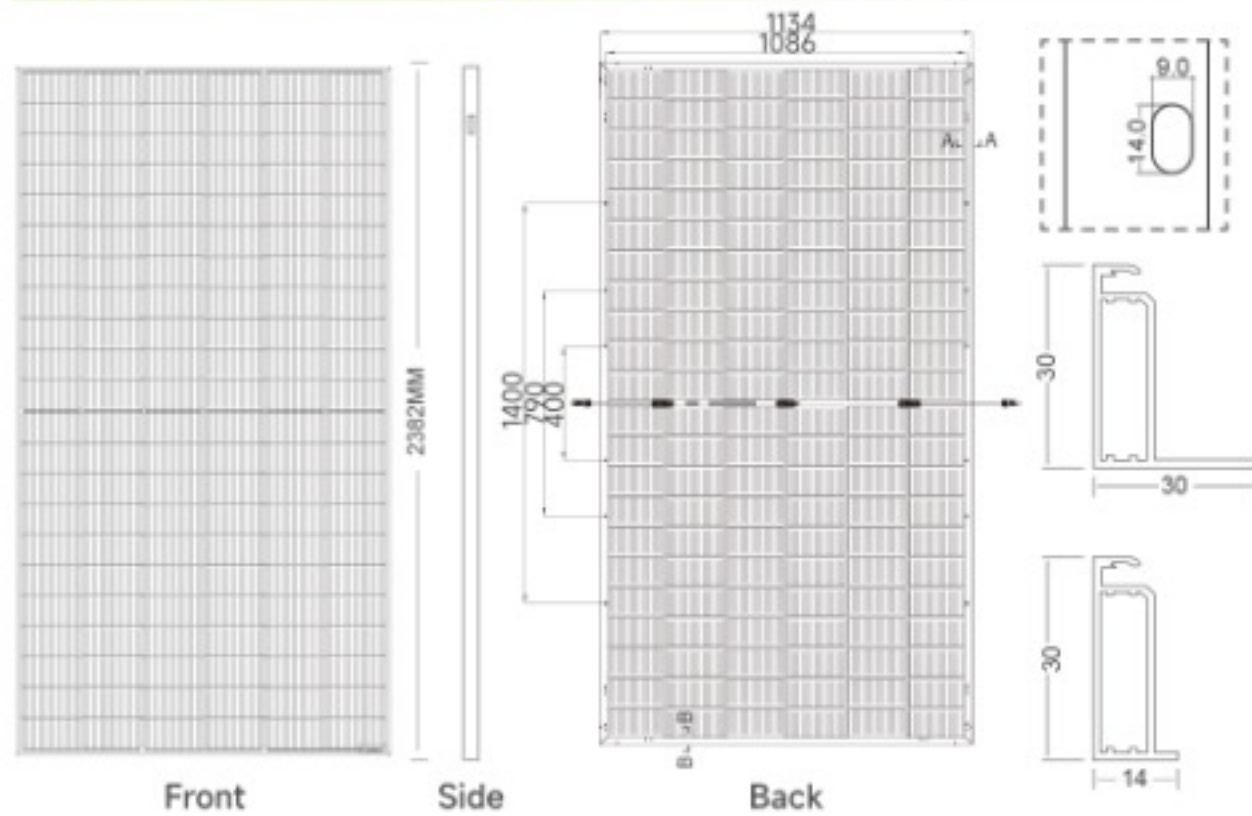
**23.0%**  
MAXIMUM CONVERSION

**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) : 37pcs/pallet,20pallets/ctns, 740pcs/ctn

## Electrical Parameters At BNPI

|                                |       |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|-------|
| Maximum Power (Pmax)           | 661   | 667   | 673   | 678   | 684   |
| Open Circuit Voltage (Voc)     | 47.43 | 47.65 | 47.88 | 48.10 | 48.32 |
| Short Circuit Current (Isc135) | 17.65 | 17.72 | 17.78 | 17.85 | 17.91 |
| Maximum Power Voltage (Vmp)    | 39.81 | 40.01 | 40.21 | 40.41 | 40.60 |
| Maximum Power Current (Imp)    | 16.62 | 16.67 | 16.73 | 16.78 | 16.84 |
| Short Circuit Current (Isc300) | 19.66 | 19.73 | 19.80 | 19.88 | 19.95 |

## Electrical Parameters

| Module Type                 | QN-600HT-02 |       | QN-605HT-02 |       | QN-610HT-02 |       | QN-615HT-02 |       | QN-620HT-02 |       |
|-----------------------------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|-------------|-------|
|                             | STC         | NOCT  | STC         | NOCT  | STC         | NOCT  | STC         | NOCT  | STC         | NOCT  |
| Maximum Power (Pmax)        | 600         | 454   | 605         | 457   | 610         | 461   | 615         | 465   | 620         | 469   |
| Open Circuit Voltage (Voc)  | 47.43       | 45.06 | 47.65       | 45.27 | 47.88       | 45.48 | 48.10       | 45.70 | 48.32       | 45.90 |
| Short Circuit Current (Isc) | 16.01       | 12.81 | 16.07       | 12.86 | 16.13       | 12.90 | 16.19       | 12.95 | 16.24       | 12.99 |
| Maximum Power Voltage (Vmp) | 39.81       | 37.62 | 40.01       | 37.81 | 40.21       | 38.00 | 40.41       | 38.19 | 40.60       | 38.37 |
| Maximum Power Current (Imp) | 15.07       | 12.06 | 15.12       | 12.10 | 15.17       | 12.14 | 15.22       | 12.18 | 15.27       | 12.22 |
| Module Efficiency -ηm (%)   | 22.2        |       | 22.4        |       | 22.6        |       | 22.8        |       | 23.0        |       |

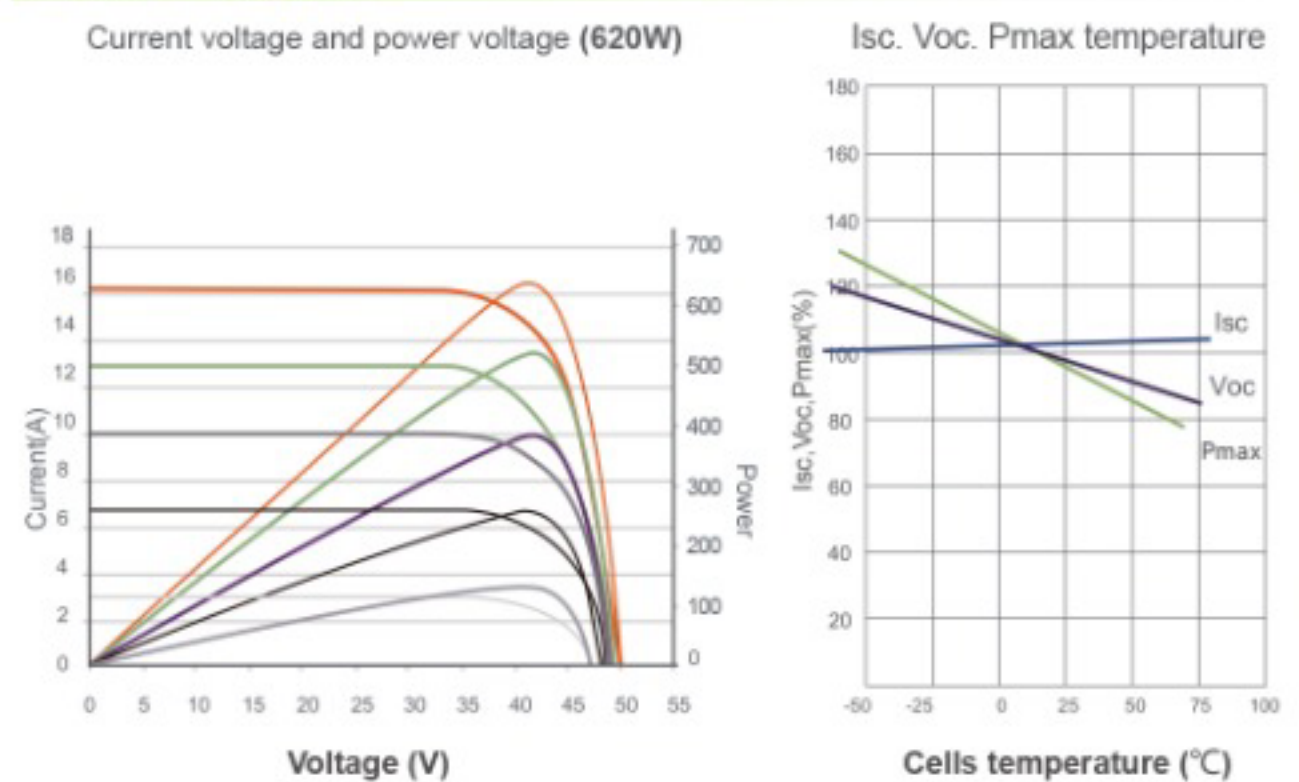
## Load Capacity

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

## Temperature Coefficient (STC Test)

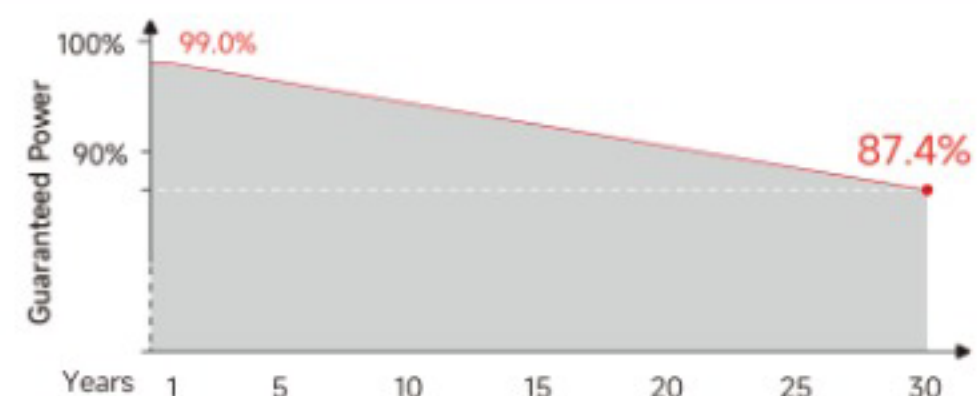
|                                 |           |
|---------------------------------|-----------|
| Temperature Coefficient of Isc  | +0.04%/°C |
| Temperature Coefficient of Voc  | -0.25%/°C |
| Temperature Coefficient of Pmax | -0.30%/°C |

## Curve Figure



## Specification

|              |                                 |
|--------------|---------------------------------|
| Cell Type    | Mono Crystalline                |
| No. of Cells | 132 [2x(6x11)] pcs              |
| Dimension    | 2382x1134x30mm                  |
| Weight       | 32.5kg                          |
| 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                | 30A           |
| Power Tolerance                           | 0~+5W         |
| Nominal Operating Cell Temperature (NOCT) | 42±2°C        |
| Safety Class                              | Class I       |
| Refer.Bifacial Factor                     | 80±10%        |

STC : Irradiance:1000W/m<sup>2</sup> | Battery temperature: 25°C | Atmospheric=1.5  
 NOCT: Irradiance:800W/m<sup>2</sup> | Ambien temperature: 20°C | Atmospheric=1.5 | Wind speed 1m/s  
 BNPI: Rear Irradiance 135W/m<sup>2</sup> | Bifaciality coefficient 80%±5%

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