

# PERC Mono-crystalline

## 530-555 Watt

0~+3% POWER TOLERANCE

High efficiency PERC single glass solar module

### Cell Busbar

10BB



11BB



### Module characteristics



#### Stronger properties

Passes the wind load test of 2400Mpa and the snow load test of 5400Mpa



#### Reduced Hot Spot Loss

Reduce heat absorption and reduce heat loss attenuation



#### PID resistance

The attenuation probability of PID phenomenon is minimized through battery production technology optimization and material control



#### Harsh environmental adaptation

Third party certification passed high salt spray and high ammonia corrosion test



#### Multiple grid and Half cell technique

More light utilization and current collection capabilities, effectively improving product power output and reliability



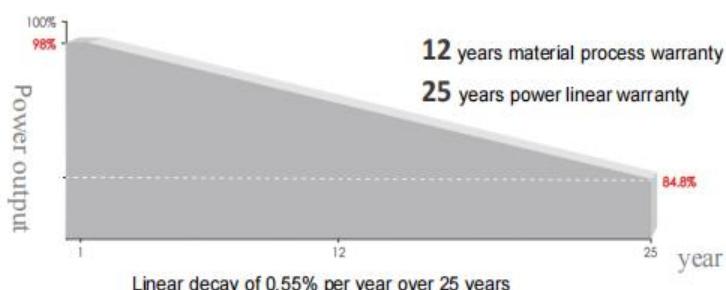
### Long and reliable quality assurance

IEC61215(2016), IEC61730(2016)

ISO9001:2015: Quality management system

ISO14001:2015: Environmental management system

ISO45001:2018: Occupational health and safety management system



## Electrical Parameters

| Model Type                         | QN-530HT        |       | QN-535HT |       | QN-540HT |       | QN-545HT |       | QN-550HT |       | QN-555HT |       |  |  |  |  |  |  |  |  |  |  |
|------------------------------------|-----------------|-------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|--|--|--|--|--|--|--|--|--|--|
|                                    | STC             | NOCT  | STC      | NOCT  | STC      | NOCT  | STC      | NOCT  | STC      | NOCT  | STC      | NOCT  |  |  |  |  |  |  |  |  |  |  |
| Maximum Power (Pmax)               | 530             | 401   | 535      | 405   | 540      | 408   | 545      | 412   | 550      | 416   | 555      | 419   |  |  |  |  |  |  |  |  |  |  |
| Open Circuit Voltage (Voc)         | 49.25           | 46.18 | 49.40    | 46.31 | 49.55    | 46.43 | 49.70    | 46.55 | 49.85    | 46.68 | 50.00    | 46.82 |  |  |  |  |  |  |  |  |  |  |
| Short Circuit Current (Isc)        | 13.73           | 11.01 | 13.79    | 11.05 | 13.85    | 11.09 | 13.91    | 11.13 | 13.97    | 11.17 | 14.02    | 11.21 |  |  |  |  |  |  |  |  |  |  |
| Maximum Power Voltage (VmP)        | 41.40           | 38.57 | 41.55    | 38.78 | 41.70    | 38.99 | 41.85    | 39.20 | 42.00    | 39.43 | 42.15    | 39.58 |  |  |  |  |  |  |  |  |  |  |
| Maximum Power Current (ImP)        | 12.81           | 10.39 | 12.88    | 10.43 | 12.95    | 10.47 | 13.03    | 10.51 | 13.10    | 10.55 | 13.17    | 10.59 |  |  |  |  |  |  |  |  |  |  |
| Module Efficiency - ηm (%)         | 20.5            |       | 20.6     |       | 20.8     |       | 21.1     |       | 21.3     |       | 21.5     |       |  |  |  |  |  |  |  |  |  |  |
| Operational Temperature            | -40°C ~ +85°C   |       |          |       |          |       |          |       |          |       |          |       |  |  |  |  |  |  |  |  |  |  |
| Maximum System Voltage             | 1500VDC         |       |          |       |          |       |          |       |          |       |          |       |  |  |  |  |  |  |  |  |  |  |
| Maximum Series Fuse Rating         | 25A             |       |          |       |          |       |          |       |          |       |          |       |  |  |  |  |  |  |  |  |  |  |
| Power Tolerance                    | 0~+3%           |       |          |       |          |       |          |       |          |       |          |       |  |  |  |  |  |  |  |  |  |  |
| Temperature Coefficient of Pmax    | -0.380%/°C      |       |          |       |          |       |          |       |          |       |          |       |  |  |  |  |  |  |  |  |  |  |
| Temperature Coefficient of Voc     | -0.289%/°C      |       |          |       |          |       |          |       |          |       |          |       |  |  |  |  |  |  |  |  |  |  |
| Temperature Coefficient of Isc     | +0.055%/°C      |       |          |       |          |       |          |       |          |       |          |       |  |  |  |  |  |  |  |  |  |  |
| Nominal Operating Cell Temperature | 45±2°C          |       |          |       |          |       |          |       |          |       |          |       |  |  |  |  |  |  |  |  |  |  |
| Safety Class                       | Class II        |       |          |       |          |       |          |       |          |       |          |       |  |  |  |  |  |  |  |  |  |  |
| Max Load (Front/back)              | 5400Mpa/2400Mpa |       |          |       |          |       |          |       |          |       |          |       |  |  |  |  |  |  |  |  |  |  |

STC: Irradiance 1000W/m<sup>2</sup>

NOCT: Irradiance 800W/m<sup>2</sup>

Battery temperature 25°C

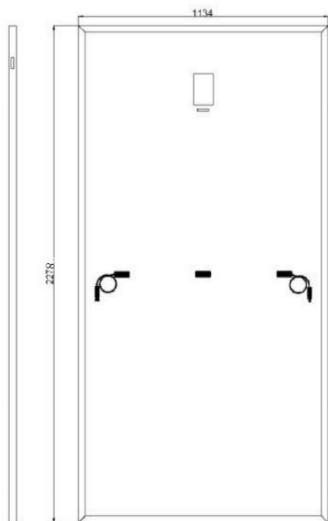
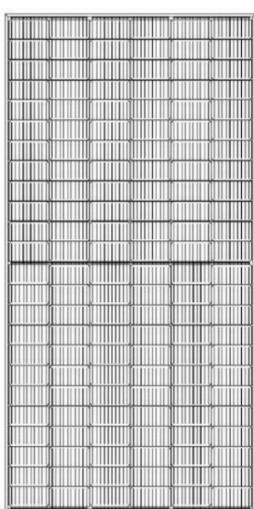
Ambient temperature 25°C

Atmospheric quality =1.5

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Wind speed 1m/S

## Mechanical Diagrams

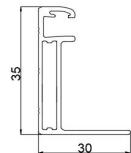


Length: ± 2mm

Width: ± 2mm

Thickness: ± 1mm

Hole pitch: ± 2mm

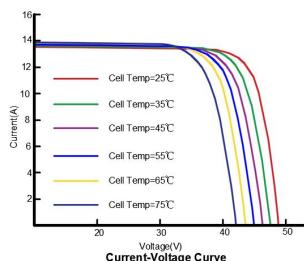


## Packing standard

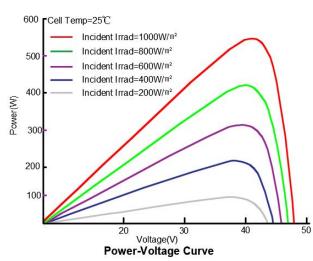
31pcs/pallet, Each pallet size: 2314×1130×1245mm

40GP:26pallets/container, 620pcs/container

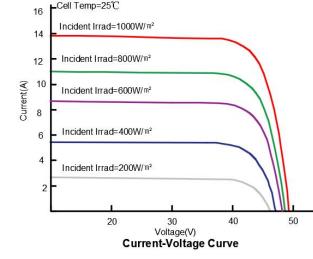
## Curve figure



Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve

## Specification

Cell type PERC mono crystalline 10BB/11BB

Half-cell quantity 144 (6×24)

Dimension 2278×1134×35

Weight 28kg ± 3%

Glass 3.2mm ,Coated toughened

Frame silvery/black Anodized Aluminum Alloy

Junction Box IP68

Cable 300mm (can be customized)