



**Q-SUN** solar

# Qrystal **P8**

Mono-Crystalline

## 550~570W

0~+5W POWER TOLERANCE

High efficiency PERC single glass solar module ●

Stronger properties, PID resistance, reduced hot spot loss ●

Better temperature coefficient ●

Harsh environmental adaptation ●

12 years material process warranty **12**

25 years power linear warranty **25**

**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



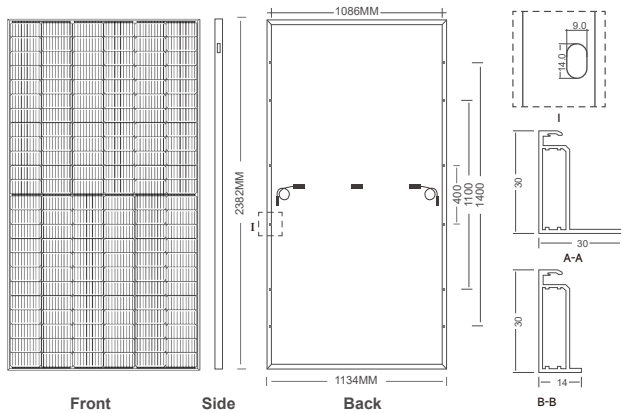
**21.1%**  
MAXIMUM CONVERSION

**0~+5W**  
POWER TOLERANCE

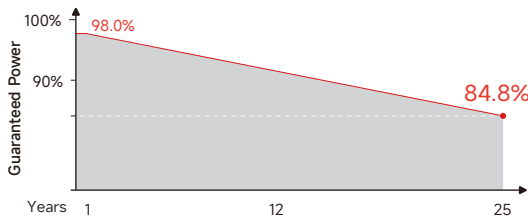
**0.55%**  
0.55% PER YEAR OVER 25 YEARS

**Half-Cut Module**  
LOWER TEMPERATURE COEFFICIENT

## Mechanical Diagrams



Length:  $\pm 2\text{mm}$  Width:  $\pm 2\text{mm}$  Thickness:  $\pm 1\text{mm}$  Hole pitch:  $\pm 2\text{mm}$

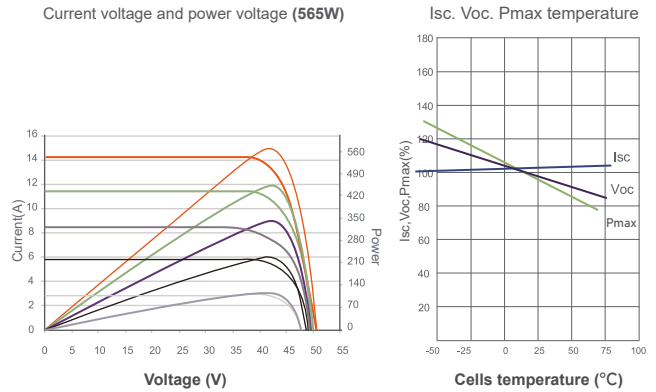


## Packing Standard

Container Capacity(40HQ)

37pcs/pallet, 20pallets/ctns, 740pcs/ctn

## Curve Figure



## Specification

|              |                                  |
|--------------|----------------------------------|
| Cell Type    | Mono Crystalline                 |
| No. of Cells | 144 [2x(6x12)] pcs               |
| Dimension    | 2382x1134x30mm                   |
| Weight       | 28.4kg $\pm 3\%$                 |
| Glass        | 3.2mm                            |
| Frame        | Anodized Aluminum Alloy          |
| Junction Box | IP68                             |
| Cable Length | 300mm,1200mm (can be customized) |

## Electrical Parameters

| Module Type                      | QN-550HT-1 |       | QN-555HT-1 |       | QN-560HT-1 |       | QN-565HT-1 |       | QN-570HT-1 |       |
|----------------------------------|------------|-------|------------|-------|------------|-------|------------|-------|------------|-------|
|                                  | STC        | NOCT  | STC        | NOCT  | STC        | NOCT  | STC        | NOCT  | STC        | NOCT  |
| Maximum Power (Pmax)             | 555        | 419   | 555        | 419   | 560        | 423   | 565        | 427   | 570        | 433   |
| Maximum Power Voltage (Vmp)      | 41.39      | 38.43 | 41.39      | 38.43 | 41.70      | 38.72 | 42.01      | 39.00 | 42.31      | 39.28 |
| Maximum Power Current (Imp)      | 13.41      | 10.91 | 13.41      | 10.91 | 13.43      | 10.92 | 13.45      | 10.93 | 13.47      | 10.95 |
| Open Circuit Voltage (Voc)       | 49.03      | 45.45 | 49.03      | 45.45 | 49.42      | 45.80 | 49.91      | 46.24 | 50.15      | 46.47 |
| Short Circuit Current (Isc)      | 14.15      | 11.54 | 14.15      | 11.54 | 14.17      | 11.56 | 14.19      | 11.61 | 14.21      | 11.63 |
| Module Efficiency - $\eta_m$ (%) | 20.3       |       | 20.5       |       | 20.7       |       | 20.9       |       | 21.1       |       |

## 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 | -0.34%/°C |

## 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) | 45 $\pm 2$ °C |
| Safety Class                              | class II      |

**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

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