



Q-SUN solar

Qrystal **P10**

Mono-Crystalline
650~670W

0~+5W POWER TOLERANCE

- High efficiency PERC 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 ●

12 years material 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

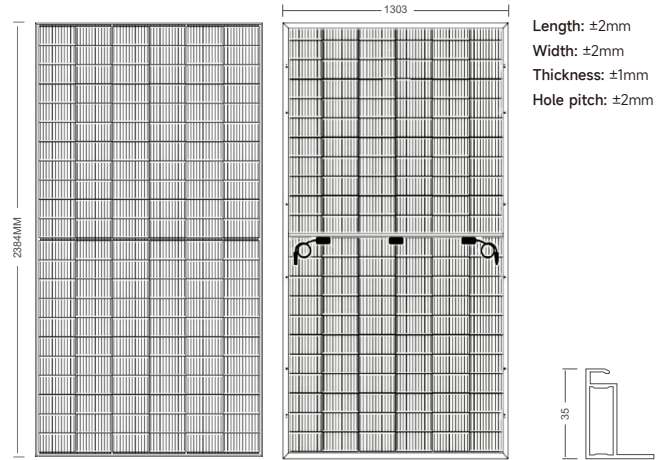


21.6% MAXIMUM CONVERSION	0~+5W POWER TOLERANCE	0.55% 0.55% PER YEAR OVER 25 YEARS	Half-Cut Module LOWER TEMPERATURE COEFFICIENT
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Specification

Cell	Mono-Crystalline
Cell Size	210x105mm
No. of Cells	132 [2x(6x11)] pcs
Dimension	2384*1303x35mm
Weight	38Kg±3%
Front Glass	2.0mm
Back Glass	2.0mm
Junction Box	IP68Rated
Internal Diodes	3 Bypass Diodes
Cable Length	300mm,1200mm(can be customized)
Power Tolerance	0~+5W
Packaging Configuration	31pcs/pallet 558pcs/40HQ container

Mechanical Diagrams



Electrical Parameters At STC

Module Type	QN-650HT	QN-655HT	QN-660HT	QN-665HT	QN-670HT
Peak Power-Pmax (W)	650	655	660	665	670
Open Circuit Voltage-Voc (V)	45.60	45.80	46.00	46.20	46.50
Short Circuit Current-Isc (A)	17.83	17.87	17.91	17.95	17.99
Maximum Power Voltage-Vmp(V)	38.08	38.29	38.49	38.68	38.88
Maximum Power Current-Imp(A)	17.07	17.11	17.15	17.19	17.23
Module Efficiency - nm(%)	20.9	21.1	21.3	21.4	21.6

Electrical Parameters At NOCT

Maximum Power-Pmax(W)	491	495	499	503	507
Open Circuit Voltage-Voc (V)	43.32	43.51	43.70	43.89	44.18
Short Circuit Current-Isc (A)	14.26	14.30	14.33	14.36	14.39
Maximum Power Voltage-Vmp (V)	35.98	36.18	36.37	36.56	36.75
Maximum Power Current-Imp (A)	13.66	13.69	13.72	13.75	13.78

Operating Parameters

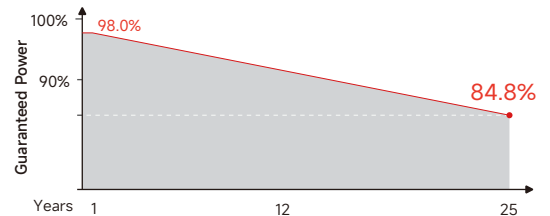
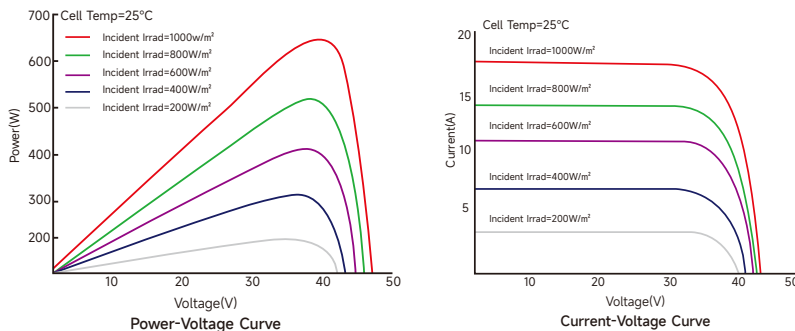
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	43±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class II

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

Load Capacity

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



STC:	Irradiance:1000W/m ² Battery temperature: 25°C Atmospheric=1.5
NOCT:	Irradiance:800W/m ² Ambien temperature: 20°C Atmospheric=1.5 Wind speed 1m/s

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