

Qrystal **P8**

Mono-Crystalline
480~500W

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
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Specification

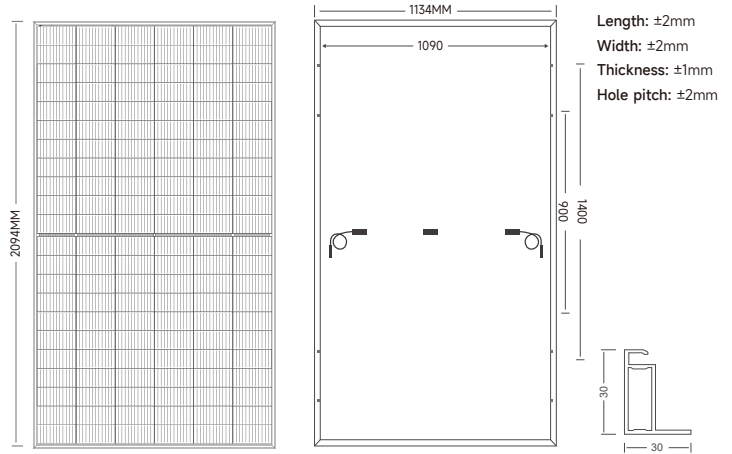
Cell Type	PERC Mono Crystalline, 182x91mm
No. of Cells	132 [2x(6×11)] pcs
Dimension	2094×1134×30mm
Weight	26kg±3%
Glass	3.2 mm Tempered Glass
Frame	Sliver/Black Anodized Aluminum Alloy
Junction Box	IP68
Cable Length	300mm,1200mm (can be customized)

Packing Standard

36pcs/pallet

40HQ: 22 pallets/container, 792pcs/container

Mechanical Diagrams



Electrical Parameters At STC

Module Type	QN-480HT	QN-485HT	QN-490HT	QN-495HT	QN-500HT
Peak Power-Pmax (W)	480	485	490	495	500
Open Circuit Voltage-Voc (V)	44.50	44.70	44.90	45.10	45.30
Short Circuit Current-Isc (A)	13.63	13.68	13.73	13.78	13.83
Maximum Power Voltage-Vmp(V)	37.00	37.20	37.40	37.60	37.80
Maximum Power Current-mp(A)	12.98	13.04	13.10	13.16	13.22
Module Efficiency - nm(%)	20.2	20.4	20.6	20.8	21.1

Electrical Parameters At NOCT

	354	357	360	364	368
Maximum Power-Pmax(W)					
Open Circuit Voltage-Voc (V)	41.50	41.70	41.90	42.10	42.30
Short Circuit Current-Isc (A)	10.97	11.02	11.07	11.12	11.17
Maximum Power Voltage-Vmp (V)	34.40	34.60	34.80	35.00	35.20
Maximum Power Current-Imp (A)	10.29	10.32	10.35	10.40	10.45

Operating Parameters

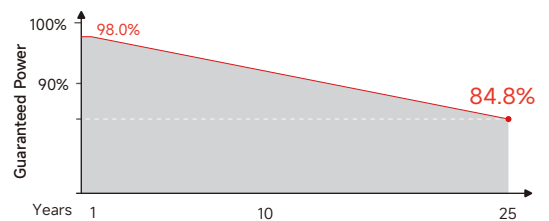
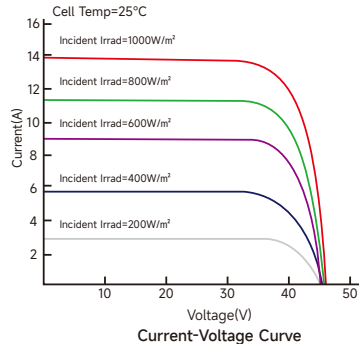
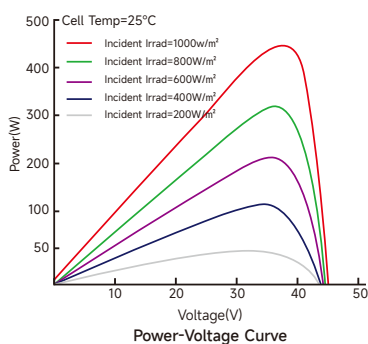
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	42±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class II

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/m² | Battery temperature: 25°C | Atmospheric=1.5

NOCT: Irradiance:800W/m² | Ambien temperature: 20°C | Atmospheric=1.5 | Wind speed 1m/s

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