



Q-SUN solar

Qrystal **P8**

Mono-Crystalline

540~560W

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 

25 years power linear warranty 

**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



21.7%
MAXIMUM CONVERSION0~+5W
POWER TOLERANCE0.55%
0.55% PER YEAR OVER 25 YEARSHalf-Cut Module
LOWER TEMPERATURE COEFFICIENT

Specification

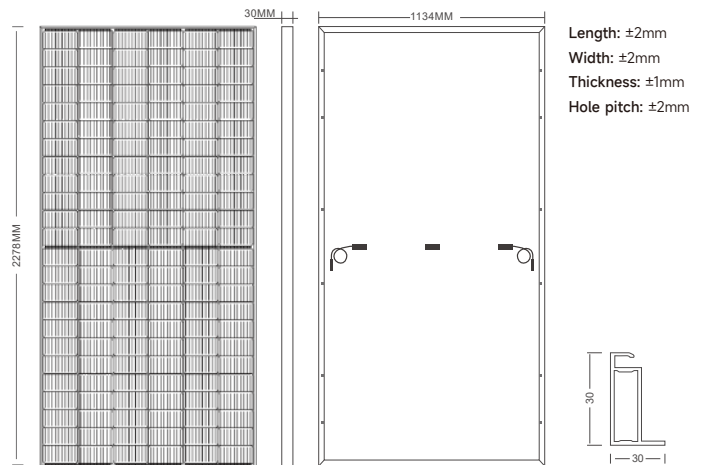
Cell Type	PERC Mono Crystalline, 10BB or 11BB
No. of Cells	144 [2x(6×12)] pcs
Dimension	2278×1134×30mm
Weight	26kg±3%
Glass	3.2 mm Tempered Glass
Frame	White Anodized Aluminum Alloy
Junction Box	IP68
Cable Length	300mm,1200mm (can be customized)

Packing Standard

36pcs/pallet

40HQ: 20 pallets/container, 720pcs/container

Mechanical Diagrams



Electrical Parameters At STC

Module Type	QN-540HT	QN-545HT	QN-550HT	QN-555HT	QN-560HT
Peak Power-Pmax (W)	540	545	550	555	560
Open Circuit Voltage-Voc (V)	49.38	49.81	50.03	50.51	50.84
Short Circuit Current-Isc (A)	13.67	13.69	13.72	13.74	13.76
Maximum Power Voltage-Vmp(V)	41.73	42.02	42.34	42.63	42.91
Maximum Power Current-mp(A)	12.94	12.97	12.99	13.02	13.05
Module Efficiency - nm(%)	20.8	21.1	21.3	21.5	21.7

Electrical Parameters At NOCT

Maximum Power-Pmax(W)	408	412	416	419	423
Open Circuit Voltage-Voc (V)	46.43	46.55	46.68	46.82	47.12
Short Circuit Current-Isc (A)	11.09	11.13	11.17	11.21	11.23
Maximum Power Voltage-Vmp (V)	38.99	39.20	39.43	39.58	39.84
Maximum Power Current-Imp (A)	10.47	10.51	10.55	10.59	10.61

Operating Parameters

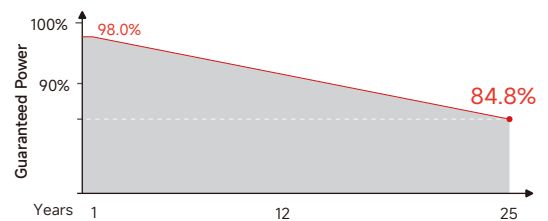
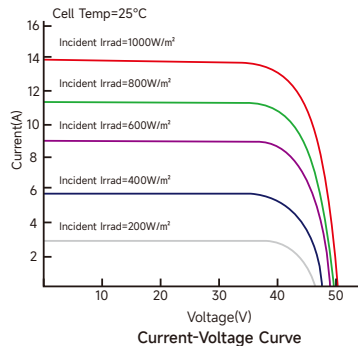
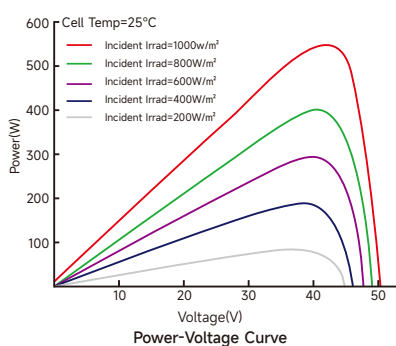
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class II

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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