

Q-SUN solar

Qrystal N8

Black frame white back glass module

430~450W


0~+5W POWER TOLERANCE

High efficiency N - type Double glass black frame
white back glass

Stronger properties, PID resistance, reduced hot spot loss

Better temperature coefficient

Harsh environmental adaptation

25 years product warranty 

30 years power linear warranty 

108

HALF-CUT
CELLS

182
x186.8
mm

RECTANGULAR
CELLS

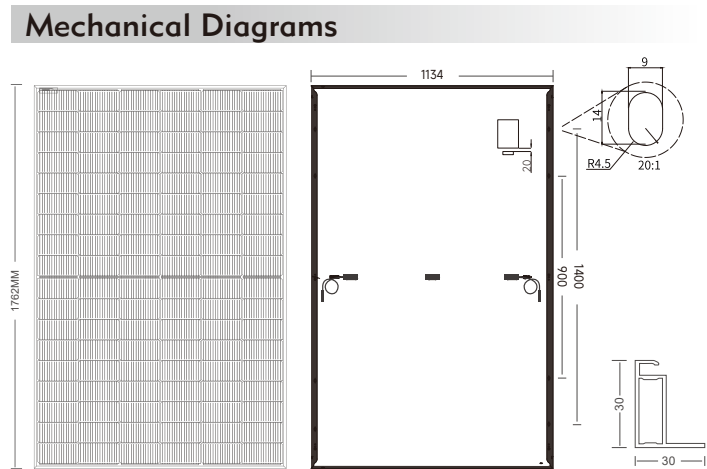


*Subject to the terms and conditions contained in the applicable Q-SUN solar Limited Warranty Statement.
25-year limited product warranty is available only for products installed and operating on rooftops in certain regions.

22.5% <small>MAXIMUM CONVERSION</small>	0~+5W <small>POWER TOLERANCE</small>	0.4% <small>0.4% PER YEAR OVER 30 YEARS</small>	Half-Cut Module <small>LOWER TEMPERATURE COEFFICIENT</small>
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Specification

Cell Type	Mono Crystalline 16BB
No. of Cells	108 [2x(6x9)] pcs
Dimension	1762×1134×30mm
Weight	25kg±3%
Front Glass	2.0mm
Back Glass	2.0mm
Frame	Black Anodized Aluminum Alloy
Junction Box	IP68
Cable Length	300mm,1200mm(can be customized)



Packing Standard

36pcs/pallet
40HQ: 26 pallets/container, 936pcs/container

Length: ±2mm Width: ±2mm Thickness: ±1mm Hole pitch: ±2mm

Electrical Parameters At STC

Module Type	QN-430HD	QN-435HD	QN-440HD	QN-445HD	QN-450HD
Peak Power-Pmax (W)	430	435	440	445	450
Open Circuit Voltage-Voc (V)	39.53	40.02	39.40	39.61	39.92
Short Circuit Current-Isc (A)	13.57	13.58	13.79	13.86	13.94
Maximum Power Voltage-Vmp(V)	32.85	33.14	33.58	33.81	34.06
Maximum Power Current-mp(A)	13.09	13.13	13.10	13.16	13.21
Module Efficiency - nm(%)	21.5	21.8	22.0	22.3	22.5

Electrical Parameters At NOCT

Parameter	QN-430HD	QN-435HD	QN-440HD	QN-445HD	QN-450HD
Maximum Power-Pmax(W)	325	329	333	336	340
Open Circuit Voltage-Voc (V)	37.55	38.02	37.43	37.62	37.91
Short Circuit Current-Isc (A)	10.86	10.86	11.03	11.09	11.15
Maximum Power Voltage-Vmp (V)	31.04	31.31	31.74	31.95	32.19
Maximum Power Current-Imp (A)	10.47	10.50	10.48	10.53	10.57

Operating Parameters

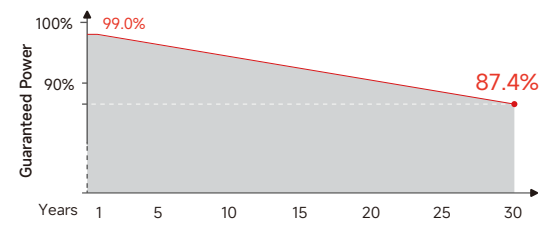
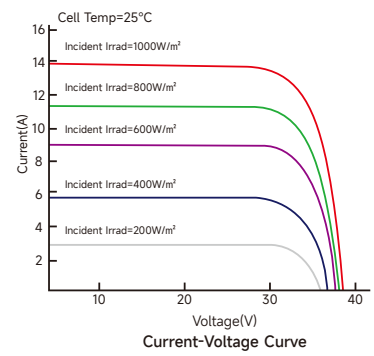
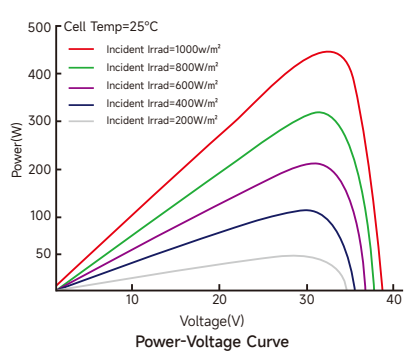
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	42±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class II

Temperature Coefficient (STC Test)

Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Pmax	-0.29%/°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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