

Mercury Series

Mono-Crystalline 450~470W

0~+5W POWER TOLERANCE

- High efficiency N - type 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

15 years material warranty



30 years power linear warranty



96

HALF-CUT
CELLS

182
x210
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.

23.5% MAXIMUM CONVERSION	0~+5W POWER TOLERANCE	0.4% 0.4% PER YEAR OVER 30 YEARS	Half-Cut Module LOWER TEMPERATURE COEFFICIENT
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Specification

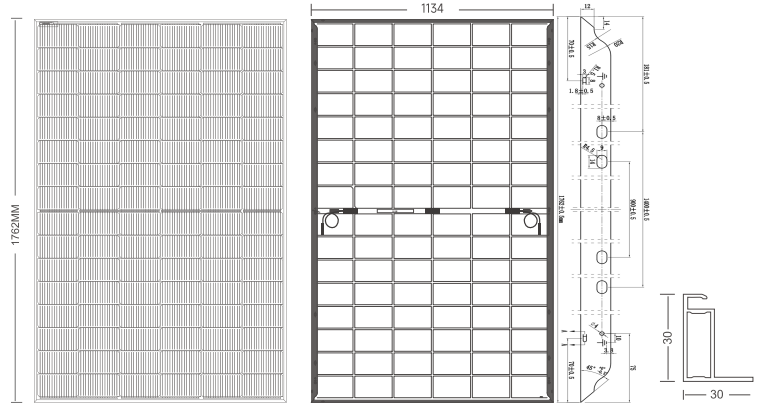
Cell Type	Mono Crystalline 16BB
No. of Cells	96 [2x(6x8)] pcs
Dimension	1762×1134×30mm
Weight	25kg±3%
Front Glass	2.0mm
Back Glass	2.0mm
Junction Box	IP68
Cable Length	300mm,1200mm(can be customized)

Packing Standard

37pcs/pallet

40HQ: 26 pallets/container, 962pcs/container

Mechanical Diagrams



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

Electrical Parameters

Module Type	QN-450HT-02		QN-455HT-02		QN-460HT-02		QN-465HT-02		QN-470HT-02	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power-Pmax (W)	450	340	455	344	460	348	465	352	470	355
Open Circuit Voltage-Voc (V)	36.02	34.22	36.29	34.48	36.56	34.74	36.77	34.93	36.99	35.14
Short Circuit Current-Isc (A)	15.82	12.65	15.88	12.69	15.94	12.73	15.96	12.77	16.01	12.81
Maximum Power Voltage-Vmp(V)	29.78	28.14	30.04	28.36	30.24	28.58	30.53	28.85	30.78	29.09
Maximum Power Current-Imp(A)	15.11	12.09	15.15	12.13	15.21	12.17	15.23	12.18	15.27	12.22
Module Efficiency - nm(%)	22.5		22.8		23.0		23.3		23.5	

Electrical Parameters At BNPI

Maximum Power-Pmax(W)	485	491	496	513	518
Open Circuit Voltage-Voc (V)	35.47	35.75	36.02	36.77	36.99
Short Circuit Current-Isc135 (A)	17.31	17.38	17.44	17.60	17.65
Short Circuit Current-Isc300 (A)	19.28	19.35	19.42	19.60	19.66
Maximum Power Voltage-Vmp (V)	29.31	29.55	29.78	30.53	30.78
Maximum Power Current-Imp (A)	16.55	16.61	16.66	16.79	16.84

Operating Parameters

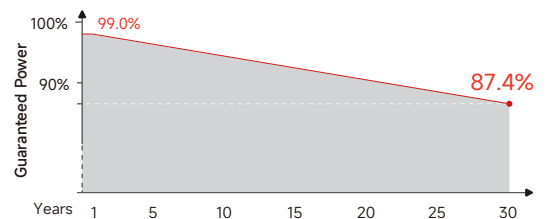
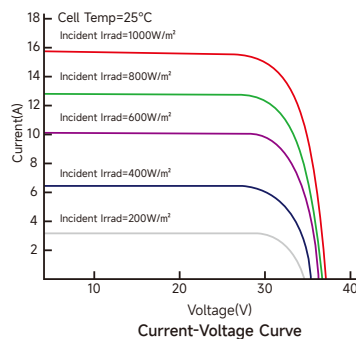
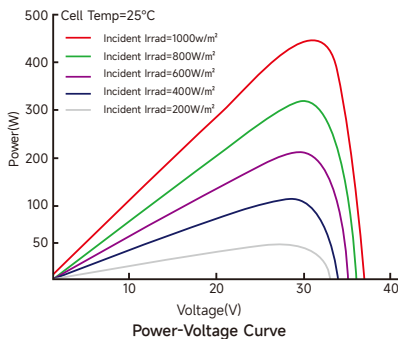
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	42±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class II y
Refer.Bifacial Factor	80%+10%

Temperature Coefficient (STC Test)

Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Pmax	-0.30%/°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
BNPI: Rear Irradiance 135W/m² Bifaciality coefficient 80%±5%

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