



Mercury Series

Mono-Crystalline
540~560W

0~+5W POWER TOLERANCE

High efficiency PERC single 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 **15**

30 years power linear warranty **30**

132

HALF-CUT
CELLS

182
x199
mm

RECTANGULAR
CELLS

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 CONVERSION

0~+5W
POWER TOLERANCE

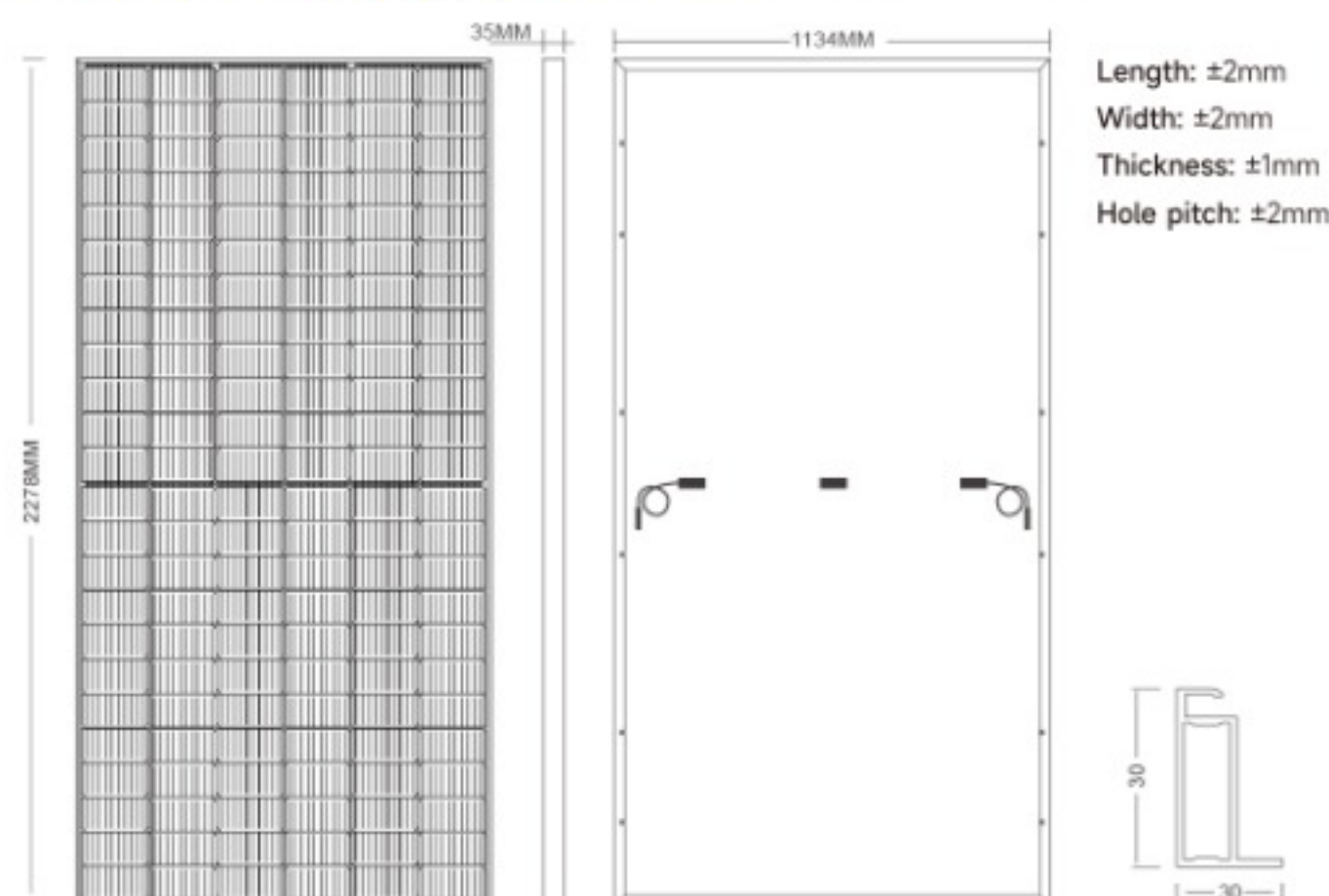
0.55%
0.55% PER YEAR OVER 25 YEARS

Half-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)

Mechanical Diagrams



Packing Standard

36pcs/pallet

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

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

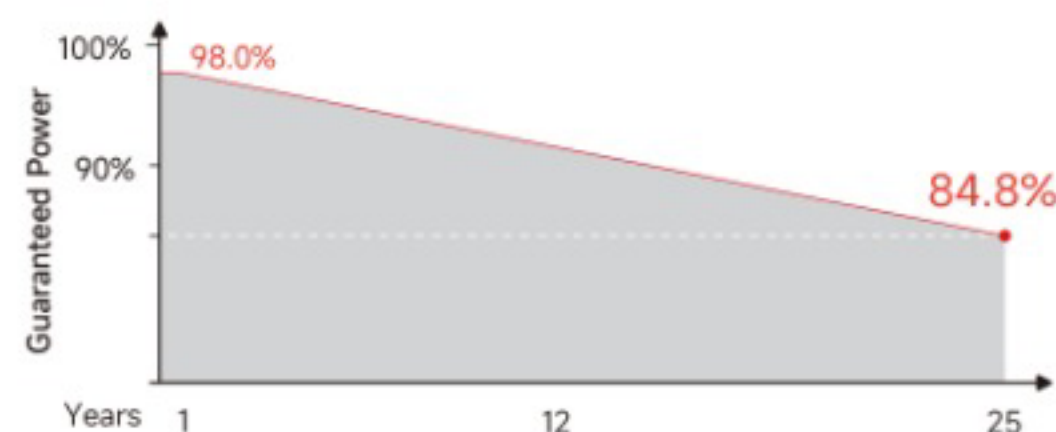
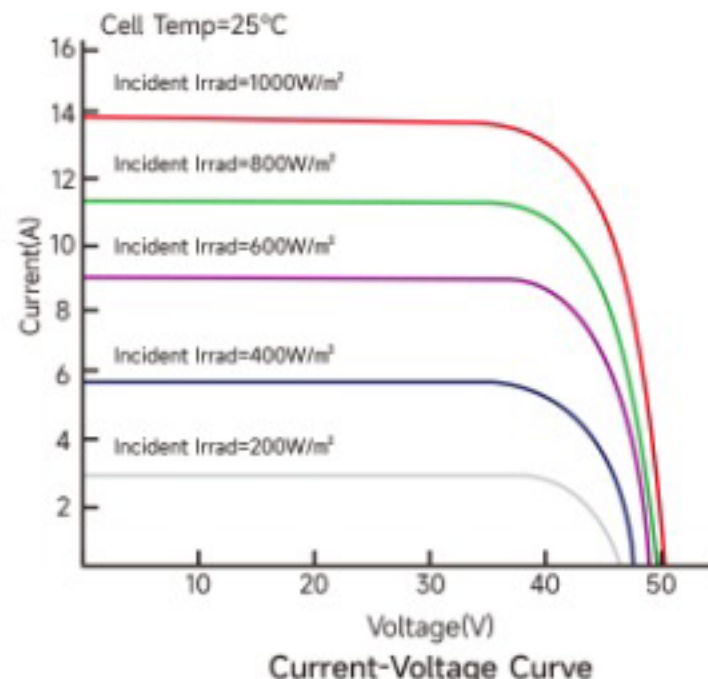
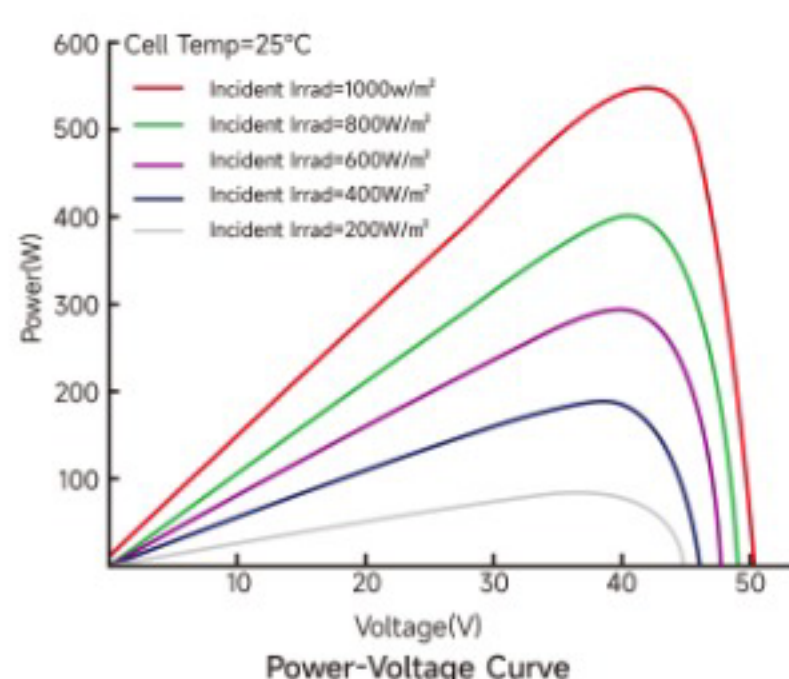
Maximum System Voltage	1500V DC
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45±2°C
Operational Temperature	-45°C~+85°C
Safety Class	Class II

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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