

MS-M872H 530-550W

Mono Bifacial Half Cell Module

1.6°C

It's temperature is 1.6°C lower than that of the conventional module

4%

4% more energy generation



Half-Cut technique leads to increased power output

When the cells are cut into halves, the current are also halved, which enables less internal loss. Series-parallel wiring improves power performance. The working temperature of module and junction box are lower than that of conventional types, which effectively reduces the hot spot risk and reduces overall module damage.



Series-parallel wiring mode results in reduced shading loss

Series-parallel wiring will not only reduce power loss from shade but also improves the effective use of supports and space.



Excellent temperature performance

The temperature of HC module is 1.6 °C lower than that of the conventional module under the same working condition, which results less power loss.



Reduced encapsulation loss due to reduced current

HC module is of lower current and lower CTM loss at around 0.2%, while the CTM loss of conventional module is 1%.



1500V high system voltage design

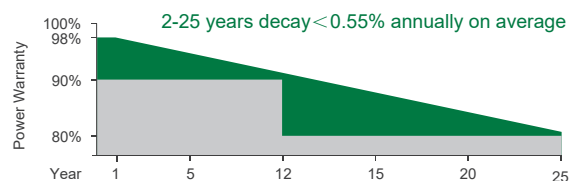
LINEAR PERFORMANCE WARRANTY

12
years

Product warranty on materials and workmanship

25
years

Linear power output warranty



CERTIFICATES

ISO 9001: 2015
Quality Management System

IEC 61215 / IEC 61730

ISO 14001: 2015
Environmental Management System

OHSAS 18001: 2007
Occupational Health &
Safety Management System

*Certification requirements vary in different markets, please consult with Maysun Optonics sales team for appropriate certification.



Bifacial

MS-M872H530-550W

Mono Bifacial Half Cell Module

ELECTRICAL PARAMETERS @ STC

Max. Power Output Pmax (W)	530	535	540	545	550
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Max. Power Voltage Vmp (V)	41.74	41.83	41.93	42.03	42.12
Max. Power Current Imp (A)	12.70	12.79	12.88	12.97	13.06
Open Circuit Voltage Voc (V)	49.40	49.50	49.60	49.70	49.80
Short Circuit Current Isc (A)	13.55	13.64	13.73	13.82	13.91
Module Efficiency (%)	20.72	20.91	21.11	21.30	21.50

*STC (Standard Test Condition): Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

Inegrated Power@STC(Refrence to 530W front)

Power Gains	5%	10%	15%	20%	25%
Max. Power Output Pmax (W)	558	585	610	636	663
Max. Power Voltage Vmp (V)	41.85	41.85	41.74	41.74	41.74
Max. Power Current Imp (A)	13.34	13.97	14.61	15.24	15.88
Open Circuit Voltage Voc (V)	49.40	49.40	49.50	49.50	49.50
Short Circuit Current Isc (A)	14.23	14.91	15.58	16.26	16.94

TEMPERATURE COEFFICIENTS

Temperature Coefficients of Pmp	-0.328%/°C
Temperature Coefficients of Voc	-0.254%/°C
Temperature Coefficients of Isc	0.041%/°C

MECHANICAL PARAMETERS

Cell Type	Mono 182x91mm
Number of Cells	144pcs(6x24)
Dimensions (L*W*H)	2256x1133x35mm
Weight	29kg±5%
Frame	Anodized aluminum alloy
Junction Box	IP68, 3 bypass diodes
Cable, Length	4.0mm ² , +320mm, -260mm

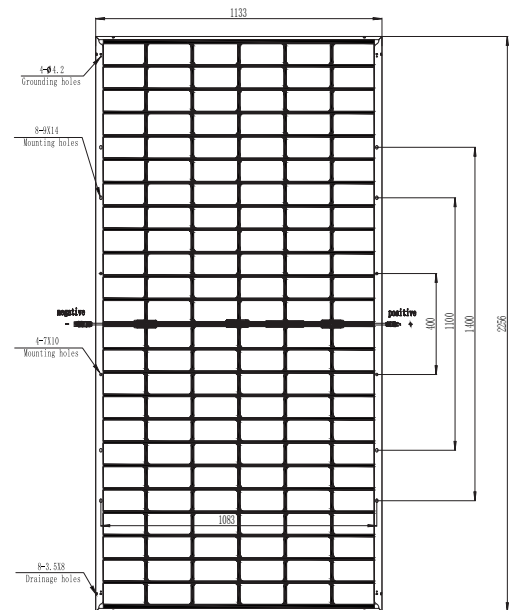
OPERATING CONDITION

Maximum System Voltage(V)	1500(DC)
Operating Temperature(°C)	-40~+85
Max. Wind Load / Snow Load(pa)	2400/5400
Max. Over Current(A)	25
Fire Rating	Class C
NOCT(°C)	45±2
Bifaciality	70%±5%

PACKAGE INFORMATION

Container 40'HQ	620pcs
Quantity / Pallet	CTNR: 31pcs

ASSEMBLY DRAWING (Unit:mm)



I-V CURVES

