

1.6℃

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 lows 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

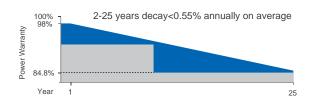
## LINEAR PERFORMANCE WARRANTY

12 years

Product warranty on materials and workmanship



Linear power output warranty



## **CERTIFICATES**

ISO 9001: 2015 Quality Management System

ISO 14001: 2015 Environmental Management System IEC 61215 / IEC 61730

OHSAS 18001: 2007 Occupational Health & Safety Managemnet System

\*Certification requirements vary in different markets, please consult with Maysun Solar Co.,Ltd. sales team for appropriate certification.



All black / Black frame











# MONO 10BB HALF-CUT MODULE

## MS-M872H 535-555W

MONO 10BB HALF-CUT MODULE

## **ELECTRICAL PARAMETERS @ STC**

Max. Power Output Pmax (W)	535	540	545	550	555
Power Tolerance	±5%	±5%	±5%	±5%	±5%
Max. Power Voltage Vmp (V)	41.87	41.99	42.12	42.25	42.37
Max. Power Current Imp (A)	12.78	12.86	12.94	13.02	13.10
Open Circuit Voltage Voc (V)	49.50	49.60	49.70	49.80	49.90
Short Circuit Current Isc (A)	13.64	13.74	13.84	13.94	14.04
Module Efficiency (%)	20.70	20.89	21.09	21.28	21.48

<sup>\*</sup>STC (Standard Test Condition): Irradiance 1000W/m² , Cell Temperature 25  $^{\circ}\!C$  , Air Mass 1.5

## **ELECTRICAL PARAMETERS @ NOCT**

Max. Power Output Pmax (W)	398	402	406	410	413
Max. Power Voltage Vmp (V)	38.20	38.29	38.35	38.43	38.52
Max. Power Current Imp (A)	10.43	10.50	10.58	10.66	10.73
Open Circuit Voltage Voc (V)	46.00	46.12	46.21	46.31	46.40
Short Circuit Current Isc (A)	11.02	11.10	11.18	11.26	11.34

<sup>\*</sup>NOCT(Nominal Operating Cell Temperature): Irradiance 80 0W/m $^2$  , Ambient Temperature 20  $^{\circ}$ C , Wind Speed 1m/s

#### **TEMPERATURE COEFFICIENTS**

Temperature Coefficients of Pmp	-0.36%/ °C
Temperature Coefficients of Voc	-0.29%/ °C
Temperature Coefficients of Isc	+0.048%/ °C

## **MECHANICAL PARAMETERS**

Cell Type	Mono 182x91mm
Number of Cells	144pcs(6x24)
Dimensions ( L*W*H )	2279x1134x30mm
Weight	28.5 kg
Frame	Anodised Aluminum
Junction Box	IP68, 3 bypass diodes
Cable, Length	4.0mm <sup>2</sup> , 300mm or customized

## **OPERATING CONDITION**

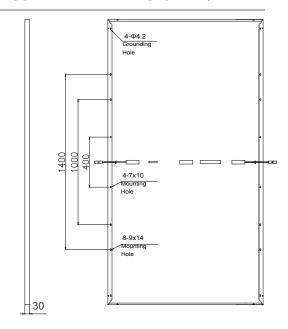
Maximum System Voltage(V)	1000(DC)	1500(DC)	
Operating Temperature(C)	-40~+85		
Max. Wind Load / Snow Load(pa)	2400/5400		
Max. Series Fuse Rating(A)	25		
Fire Rating	Class C		
NOCT(°C)	45±2		

## **PACKAGE INFORMATION**

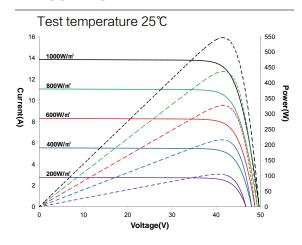
Container 40'HQ	720pcs		
Quantity / Pallet	CTNR: 36pcs		
Package size :2310x1115x1249mm	Net weight: 1026kg Gross weight: 1083kg		

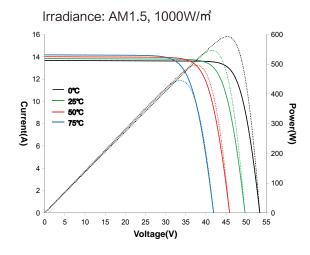
<sup>\*</sup>Specifications are subject to change without prior notice.

## ASSEMBLY DRAWING (Unit:mm)



## **I-V CURVES**







Maysun Solar Co., Ltd.

<sup>\*</sup>Measurement Tolerance (±3.0%)