

## ALTRA HC M108

182 PERC MONO  
HALF CELL MODULE

395-420W

POSITIVE TOLERANCE 0~+6W  
SUPER PERC MONO 108 CELL

New Energy, Smart Living

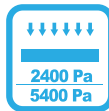


### WHY MYSOLAR?



#### MBB Solar Cells

Mysolar panels have multi-busbars that can reduce current heat loss of the cells and increase the current collection ability.



#### Strong and Safe

Mysolar panels are certified to withstand 2400 Pa negative load of wind and 5400 Pa positive load of snow.



#### 1500V System Voltage

Mysolar panels are of 1500V system voltage design compatible to 1000V/1500V and reduces BoS cost greatly.



#### PID-Resistant

Mysolar panels are PID-resistant which were tested to the industry's most rigorous durability standards in accordance to IEC 62804.



#### Better Low Light Output

Mysolar uses the best solar glass, cells, and assembling technology to guarantee good performance in cloudy days or low light conditions.



#### Salt-resistant & Ammonia-Resistant

Mysolar solar panels are salt mist and ammonia resistance certified.



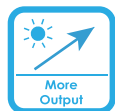
#### Positive Tolerance

Mysolar guarantees that all solar modules manufactured by Mysolar have 0~6W positive tolerance.



#### Confident Warranty

Mysolar offers 25 years limited product warranty and 25 years performance warranty for Bifacial solar modules.



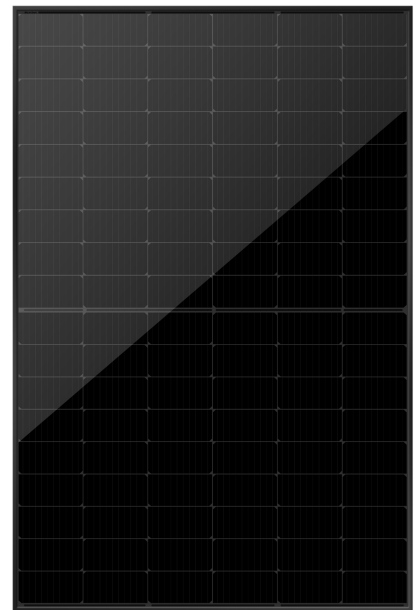
#### Higher Output

With multi-busbar cells, and 1500V system voltage, super solar glass, Mysolar panels have higher output than its competitors'.



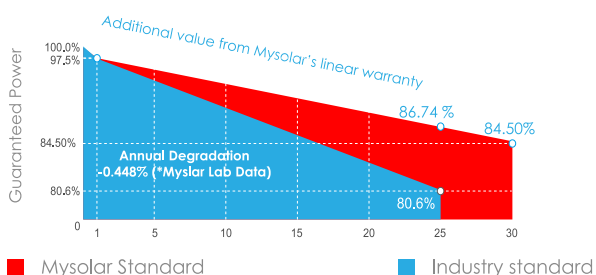
#### High Reliability

Mysolar has complete testing facilities for tests of UV, TC, HF, EL, etc tests. 100% of Mysolar panels were tested & minimum twice EL tests guaranteed.



### LINEAR PERFORMANCE WARRANTY

25 Year Product Warranty · 25 Year Linear Power Warranty



- \* ISO9001: 2015 Quality management systems
- \* ISO14001: 2015 Quality management systems
- \* ISO 45001: 2018 Occupational health and safety management systems
- \* IEC 61215/61730, UL 61215/61731 certified product



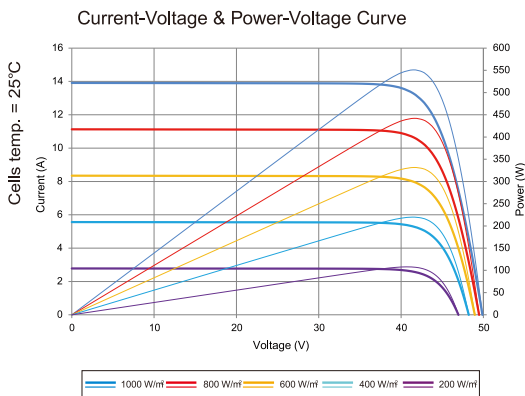
# SPECIFICATIONS

Module Type	MS395M-HA		MS400M-HA		MS405M-HA		MS410M-HA		MS415M-HA		MS420M-HA	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	395W	298.5W	400W	302.2W	405W	305.8W	410W	309.4W	415W	313.0W	420W	316.6W
Maximum Power Voltage (Vmp)	30.84V	28.60V	31.01V	28.80V	31.21V	29.00V	31.45V	29.20V	31.68V	29.40V	31.84V	29.60V
Maximum Power Current (Imp)	12.81A	10.53A	12.90A	10.58A	12.98A	10.63A	13.04A	10.67A	13.10A	10.71A	13.20A	10.67A
Open-circuit Voltage (Voc)	36.98V	34.61V	37.07V	34.77V	37.23V	35.00V	37.32V	35.21V	37.71V	35.42V	37.87V	35.63V
Short-circuit Current (Isc)	13.70A	11.08A	13.79A	11.13A	13.87A	11.18A	13.95A	11.22A	14.02A	11.26A	14.09A	11.30A
Module Efficiency STC (%)	20.20%		20.50%		20.70%		21.00%		21.30%		21.60%	
Operating Temperature (°C)	-40°C~+85°C											
Maximum System Voltage	1500VDC/1000VDC											
Maximum Series Fuse Rating	25A											
Power Tolerance	0~+6W											
Temperature Coefficients of Pmax	-0.36%/°C											
Temperature Coefficients of Voc	-0.304%/°C											
Temperature Coefficients of Isc	0.050%/°C											
Nominal Operating Cell Temperature (NOCT)/ Nominal Module Operating Temperature (NMOT)	45±2°C/ 42±2°C											

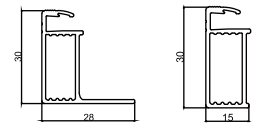
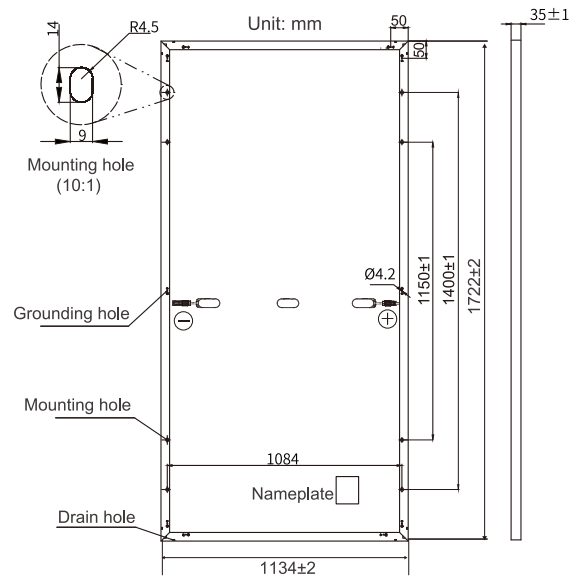
**NMOT\*** (Nominal Module Operating Temperature):  
Irradiance 800W/sqm, Ambient Temperature 20 °C, AM 1.5, Wind Speed 1m/s

\*Power measurement tolerance: -/+3%

## Characteristics and Operating Temperature



## Mechanical Diagrams



## Mechanical Characteristics

Cell Type	Mono PERC 182*91mm
No. of cells	108 (6*9+6*9)
Dimensions	1722±2 x 1134±2 x 30±1 mm
Weight	21.50Kg Approx
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated, 3 diodes, 300mm cable/Customized
Cable & Connector	4mm <sup>2</sup> (IEC), 12 AWG (UL) MC4 compatible

## Packaging Info

( Two pallets = One stack )

36pcs/pallet, 936pcs/40'HQ Container

Mysolar reserves the right to make necessary adjustment to the information described herein at any time without further notice due to continuous innovation and product improvement. Please be kindly noted installation of Mysolar solar modules shall be done by professional skilled people. Please read the installation manual carefully before using Mysolar solar panels.

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**Mamibot Manufacturing USA Inc.**

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