

## ALTRA HC M132

182 PERC MONO  
HALF CELL MODULE

490-510W

POSITIVE TOLERANCE 0~+6W  
SUPER PERC MONO 132 CELL

New Energy, Smart Living

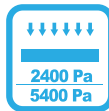


### WHY MYSOLAR?



#### 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.



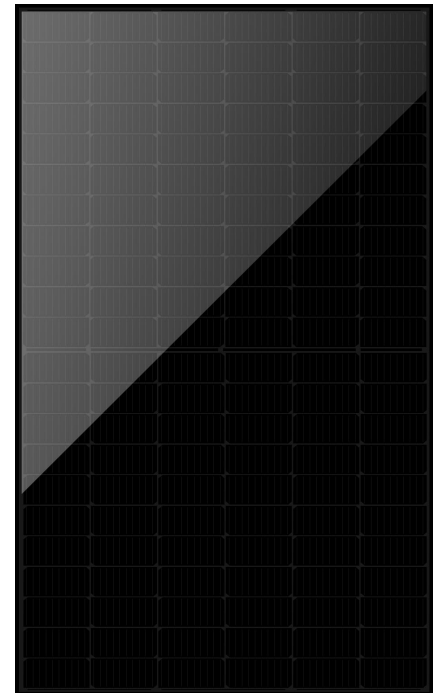
#### Higher Output

With multi-busbar (5BB) cells, and 1500V system voltage, super solar glass, Mysolar panels have higher output than its competitors'.



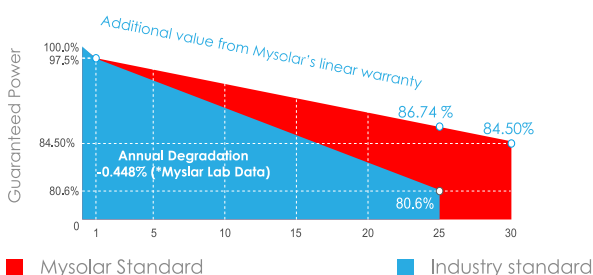
#### High Reliability

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

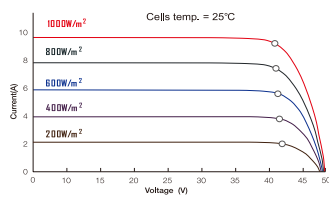
Module Type	MS490M-HA		MS495M-HA		MS500M-HA		MS505M-HA		MS510M-HA	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	490Wp	360Wp	495Wp	364Wp	500Wp	368Wp	505Wp	372Wp	510Wp	376Wp
Maximum Power Voltage (Vmp)	38.08V	34.95V	38.22V	35.15V	38.38V	35.32V	38.53V	35.37V	38.67V	35.42V
Maximum Power Current (Imp)	12.87A	10.30A	12.95A	10.36A	13.05A	10.42A	13.12A	10.49A	13.19A	10.56A
Open-circuit Voltage (Voc)	45.25V	41.86V	45.40V	42.00V	45.55V	42.13V	45.70V	42.27V	45.84V	42.41V
Short-circuit Current (Isc)	13.75A	11.08A	13.83A	11.15A	13.92A	11.21A	13.99A	11.28A	14.07A	11.35A
Module Efficiency STC (%)	20.70%		20.90%		21.10%		21.30%		21.50%	
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	-0.35%/°C									
Temperature Coefficients of Voc	-0.28%/°C									
Temperature Coefficients of Isc	0.048%/°C									
Nominal Operating Cell Temperature (NOCT)	45±2°C									

**STC:** Irradiance 1000W/sqm Cell Temp: 25°C AM=1.5

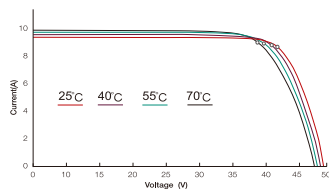
**NOCT:** Irradiance 800W/sqm Ambient Temp: 20 °C AM=1.5 Wind Speed 1m/s

\* Power measurement tolerance: -/+3%

## Characteristics and Operating Temperature

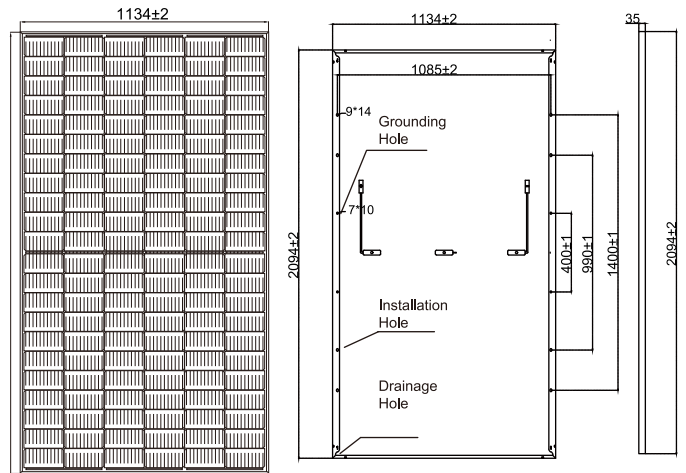


I-V curve



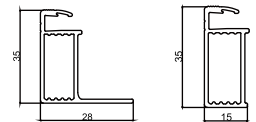
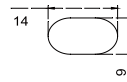
I-V curve

## Mechanical Diagrams



## Mechanical Characteristics

Cell Type	Mono PERC 182*91mm
No. of cells	132 (6*11+6*11)
Dimensions	2094x1134x35mm
Weight	26.30Kg Approx
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 diodes, 300mm cable
Cable & Connector	4mm <sup>2</sup> cable MC4 compatible



## Packaging Info

( Two pallets = One stack )

31 pcs/pallet, 682 pcs/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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