

# Mysolar

## ALTRA BIFACIAL M108B

PERC HALF CELL  
MONO MODULE  
390-415 Framed

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

New Energy, Smart Living

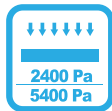


### WHY MYSOLAR?



#### 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.



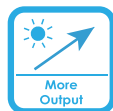
#### Confident Warranty

Mysolar offers 25 years limited product warranty and 30 years performance warranty for Bifacial solar modules.



#### Dual Side Power Producing

Mysolar bifacial panels have up to 70% bifaciality, generates up to 25.2% more energy yield than conventional panels.



#### Higher Output

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



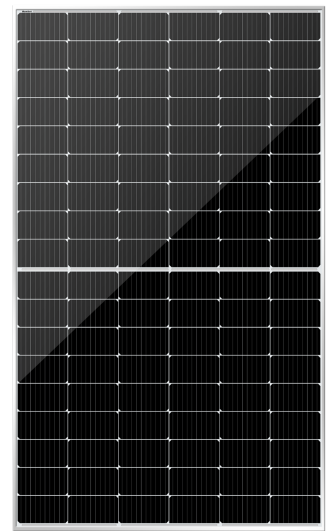
#### High Reliability

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



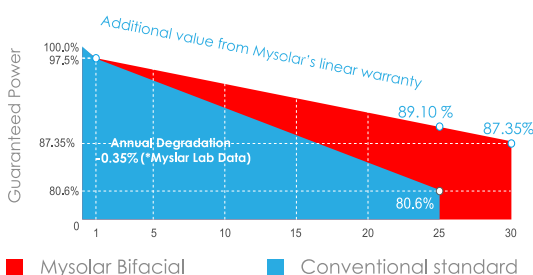
#### More Options for Solar Projects

More possible purposes like vertical installations, BIPV's, areas of high humidity, strong wind/snow, and deserts.



### LINEAR PERFORMANCE WARRANTY

25 Year Product Warranty · 30 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 (STC\*)

Module Type	MS390M-DHBA		MS395M-DHBA		MS400M-DHBA		MS405M-DHBA		MS410M-DHBA		MS415M-DHBA	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	390W	294.8W	395W	298.5W	400W	302.2W	405W	305.8W	410W	309.4W	415W	313.0W
Maximum Power Voltage (Vmp)	30.64V	28.40V	30.84V	28.60V	31.01V	28.80V	31.21V	29.00V	31.45V	29.20V	31.68V	29.40V
Maximum Power Current (Imp)	12.73A	10.47A	12.81A	10.53A	12.90A	10.58A	12.98A	10.63A	13.04A	10.67A	13.10A	10.71A
Open-circuit Voltage (Voc)	36.85V	34.43V	36.98V	34.61V	37.07V	34.77V	37.23V	35.00V	37.32V	35.21V	37.71V	35.43V
Short-circuit Current (Isc)	13.61A	11.02A	13.70A	11.08A	13.79A	11.13A	13.87A	11.18A	13.95A	11.22A	14.03A	11.26A
Module Efficiency STC (%)	20.00%		20.20%		20.50%		20.70%		21.00%		21.25%	
Operating Temperature (°C)	-40°C~+85°C											
Maximum System Voltage	1500VDC (IEC)											
Maximum Series Fuse Rating	30A											
Power Tolerance	0~+6W											
Temperature Coefficients of Pmax	-0.360%/°C											
Temperature Coefficients of Voc	-0.304%/°C											
Temperature Coefficients of Isc	0.050%/°C											
Nominal Module Operating Temperature (NMOT)	42±2°C											

# REARSIDE POWER GAIN (BIFACIAL OUTPUT FOR MS405M-DHBA 405W)

Power Gain	5%	10%	15%	20%	25%
Maximum Power (Pmax)	425Wp	446Wp	466Wp	486Wp	506Wp
Maximum Power Voltage (Vmp)	31.41V	31.41V	31.41V	31.40V	31.40V
Maximum Power Current (Imp)	13.59A	14.23A	14.88A	15.52A	16.18A
Open-circuit Voltage (Voc)	37.22V	37.22V	37.23V	37.23V	37.23V
Short-circuit Current (Isc)	14.48A	15.17A	15.86A	16.55A	17.24A

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

\*Power measurement tolerance: -/+3%

## Mechanical Diagrams

## Characteristics and Operating Temperature

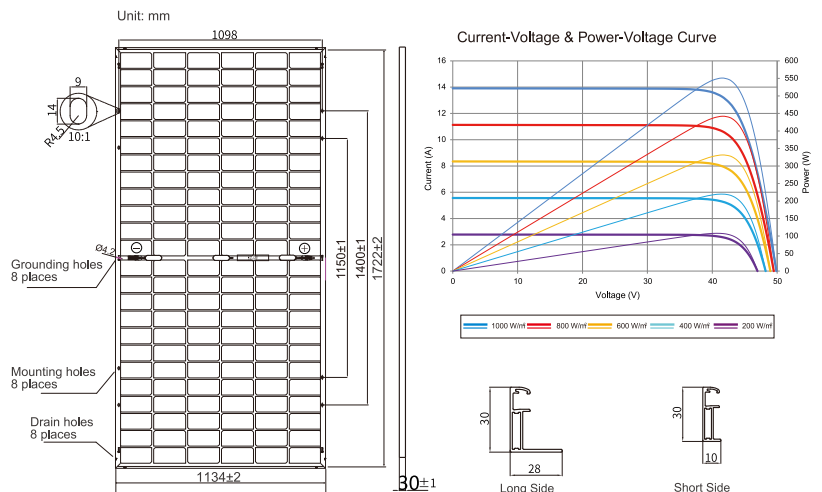
### Mechanical Characteristics

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	23.80KG ±2%
Glass	2.0mm 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.

**Mysolar** is a **Mamibot** company and brand, **Mysolar** and **Mamibot** are trademarks of Mamibot Manufacturing USA Inc.

**Mamibot Manufacturing USA Inc.**

www.mamibot.com Tel: 001 302 428 9888 sales@mamibot.com Head Office: Orange St. #600, Wilmington, New Castle, 19899, Delaware, USA

**Mysolar Manufacturing (Shanghai) Co., Ltd.**

www.imysolar.com www.mamibot.com/mysolar Tel: 0086 21 62147369 North Part, 21ST Fl, No.1, LN1040, Caoyang Rd, Putuo Dist, Shanghai, P.R.C.