

# Mysolar

## ALTRA BIFACIAL M132B

182 PERC MONO  
HALF CELL MODULE

485-505W Framed

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

New Energy, Smart Living

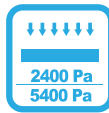


### WHY MYSOLAR?



#### 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.



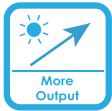
#### Positive Tolerance

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



#### Confident Warranty

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



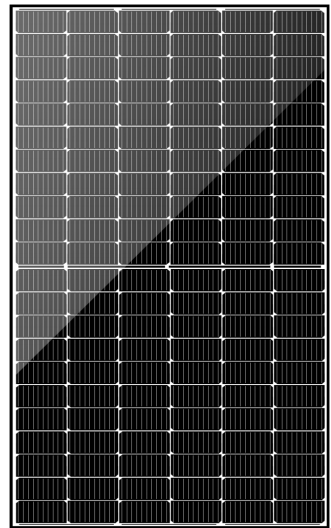
#### Higher Output

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 & minimumly twice EL tests guaranteed.



#### Dual Side Power Producing

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

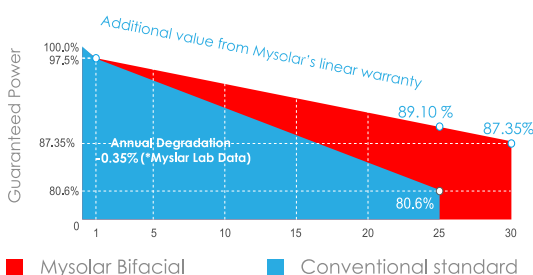


#### More Options for Solar Projects

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

Module Type	MS485M-DHBA		MS490M-DHBA		MS495M-DHBA		MS500M-DHBA		MS505M-DHBA	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	485Wp	356Wp	490Wp	360Wp	495Wp	364Wp	500Wp	368Wp	505Wp	372Wp
Maximum Power Voltage (Vmp)	37.93V	34.80V	38.08V	34.95V	38.22V	35.15V	38.38V	35.32V	38.53V	35.37V
Maximum Power Current (Imp)	12.79A	10.23A	12.87A	10.30A	12.95A	10.36A	13.05A	10.42A	13.12A	10.49A
Open-circuit Voltage (Voc)	45.10V	41.72V	45.25V	41.86V	45.40V	42.00V	45.55V	42.13V	45.70V	42.27V
Short-circuit Current (Isc)	13.67A	11.02A	13.75A	11.08A	13.83A	11.15A	13.92A	11.21A	13.99A	11.28A
Module Efficiency STC (%)	20.42%		20.64%		20.85%		21.06%		21.27%	
Operating Temperature (°C)	-40°C~+85°C									
Maximum System Voltage	1500VDC									
Maximum Series Fuse Rating	30A									
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									

## REARSIDE POWER GAIN (BIFACIAL OUTPUT, REAR Bifaciality 70%, 10% Irradiance Ratio)

Power Gain	MS485M-DHBA	MS490M-DHBA	MS495M-DHBA	MS500M-DHBA	MS505M-DHBA
Maximum Power (Pmax)	519Wp	525Wp	530Wp	535Wp	541Wp
Maximum Power Voltage (Vmp)	38.08V	38.23V	38.38V	38.53V	38.68V
Maximum Power Current (Imp)	14.16A	14.25A	14.34A	14.43A	14.52A
Open-circuit Voltage (Voc)	45.25V	45.40V	45.55V	45.70V	45.85V
Short-circuit Current (Isc)	15.12A	15.21A	15.29A	15.38A	15.46A

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

\*Power measurement tolerance: -/+3%

## Mechanical Characteristics

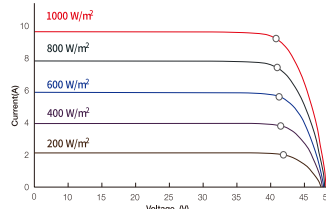
Cell Type	Mono PERC 182*91mm
No. of cells	132 (6*11+6*11)
Dimensions	2094x1134x30mm
Weight	29.00Kg Approx
Front Glass	2.0mm Anti-Reflection Coating, High Transmission, Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	IP68 Rated, 3 diodes
Cable & Connector	cable: 300mm(+)/300mm(-) MC4 compatible

## Packaging Info

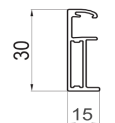
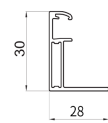
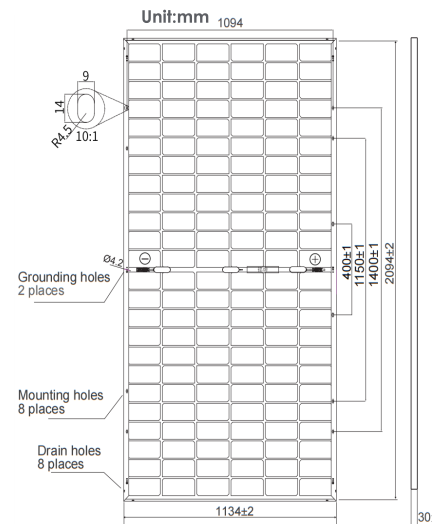
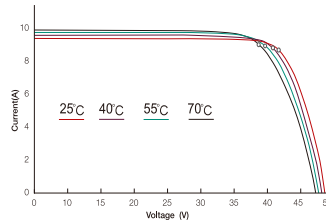
( Two pallets = One stack )

36pcs/pallet, 792pcs/40'HQ Container

I-V curve



I-V curve



Long Frame

Short Frame

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.**

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

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

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