

Mysolar

PLATI BIFACIAL M144B

PERC HALF CELL
MONO MODULE

435-455W Frameless

POSITIVE TOLERANCE 0~+6W
HALF CELL PERC MONO 144

New Energy, Smart Living

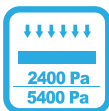


WHY MYSOLAR?



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.



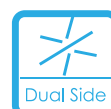
Higher Output

With multi-busbar (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 & minimally twice EL tests guaranteed.



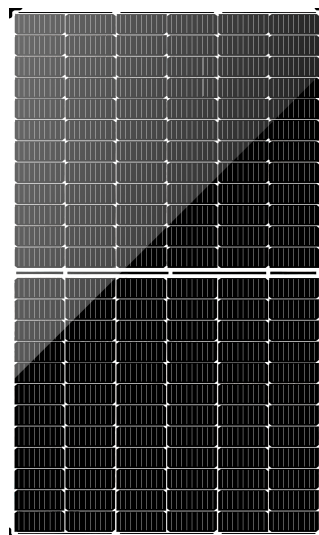
Dual Side Power Producing

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



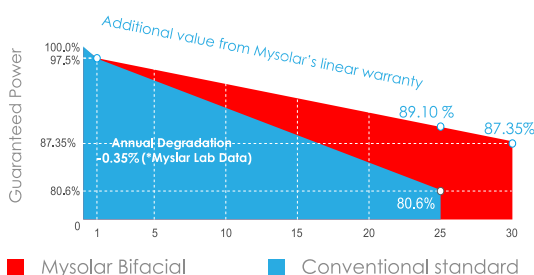
More Options for Solar Projects

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
- OHSAS18001: 2018 Occupational health and safety management systems
- IEC61215, IEC61730, UL1703 certified product



SPECIFICATIONS (STC*)

Module Type	MS435M-DHBP	MS440M-DHBP	MS445M-DHBP	MS450M-DHBP	MS455M-DHBP
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	435Wp	440Wp	445Wp	450Wp	455Wp
Maximum Power Voltage (Vmp)	40.43V	40.63V	40.83V	41.03V	41.22V
Maximum Power Current (Imp)	10.76A	10.83A	10.90A	10.97A	11.04A
Open-circuit Voltage (Voc)	48.72V	48.95V	49.13V	49.33V	49.53V
Short-circuit Current (Isc)	11.23A	11.29A	11.35A	11.41A	11.47A
Module Efficiency STC (%)	19.60%	19.90%	20.10%	20.30%	20.50%
Operating Temperature (°C)	-40°C~+85°C				
Maximum System Voltage	1500VDC (IEC)				
Maximum Series Fuse Rating	20A				
Power Tolerance	0~+6W				
Temperature Coefficients of Pmax	-0.38%/°C				
Temperature Coefficients of Voc	-0.31%/°C				
Temperature Coefficients of Isc	0.048%/°C				
Nominal Module Operating Temperature (NMOT)	42±2°C				

REAR SIDE POWER GAIN (BIFACIAL OUTPUT, FOR 435W/Bifaciality 70%)

Power Gain (Percentage)	10%	15%	20%	25%	30%
Maximum Power (Pmax)	465Wp	480Wp	495Wp	510Wp	525Wp
Maximum Power Voltage (Vmp)	40.46V	40.46V	40.47V	40.47V	40.47V
Maximum Power Current (Imp)	11.50A	11.87A	12.11A	12.61A	12.98A
Open-circuit Voltage (Voc)	48.88V	48.88V	48.89V	48.89V	48.89V
Short-circuit Current (Isc)	12.07A	12.45A	12.69A	13.20A	13.58A

NMOT* (Nominal Module Operating Temperature):

Irradiance 800W/sqm, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

*Power measurement tolerance: -/+3%

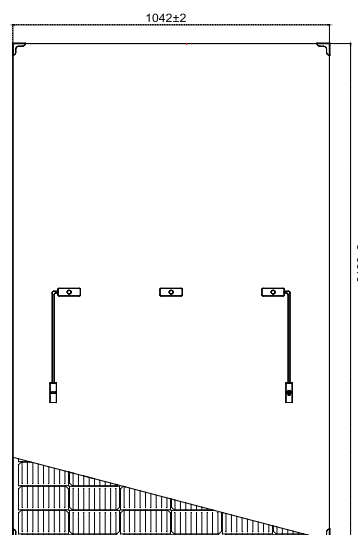
Mechanical Characteristics

Cell Type	Mono PERC 166×83mm
No. of cells	144 (6×12+6×12)
Dimensions	2126×1042×6mm
Weight	31.50KG
Glass	2.5mm Anti-Reflection Coating, High Transmission, Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	IP68 Rated, 3 diodes
Cable & Connector	4mm ² cable 300mm MC4 Compatible

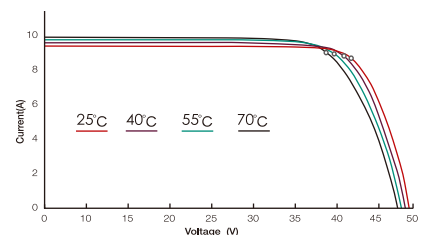
Packaging Info

(Two pallets = One stack)

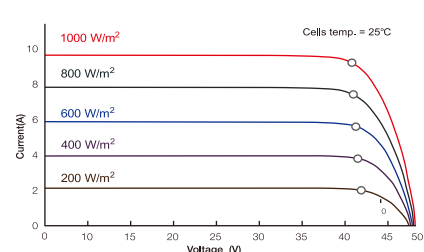
30pcs/pallet, 660pcs/40'HQ Container



I-V curve



I-V curve



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.