

**For a Free Quote:**

**Web: [EnergyPal.com/solar](http://EnergyPal.com/solar)**

**Call: 1-800-990-3725**

**Email: [contact@energypal.com](mailto:contact@energypal.com)**

# **EnergyPal**

## **Solar Panel Guide Specification Data Sheet**

**Mysolar USA  
PLATI M144 HC 435-445W  
MS445M-HP**

Also available on the web at  
[EnergyPal.com/mysolar-usa-solar-panels/ms445m-hp](http://EnergyPal.com/mysolar-usa-solar-panels/ms445m-hp)

# Mysolar

## PLATI HC M144

166 PERC MONO  
HALF CELL MODULE

435-455W

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

New Energy, Smart Living



Window Cleaning Robot  
Mamibot W120-T

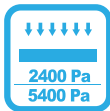
Robot Vacuum Cleaner  
Mamibot Ysaam EXVAC6805

### 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 12 years limited product warranty and 25 years performance warranty for all the solar modules.



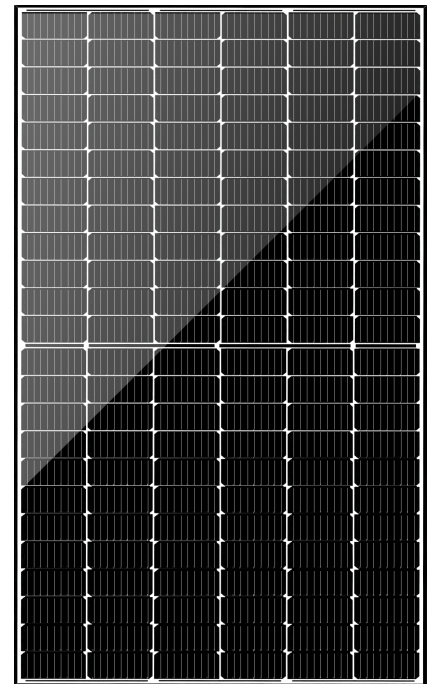
#### Higher Output

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



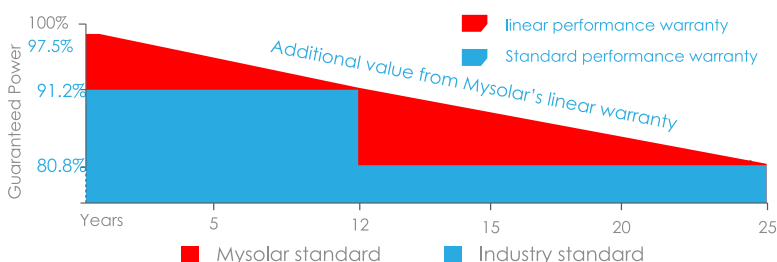
#### High Reliability

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

12 Year Product Warranty · 25 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

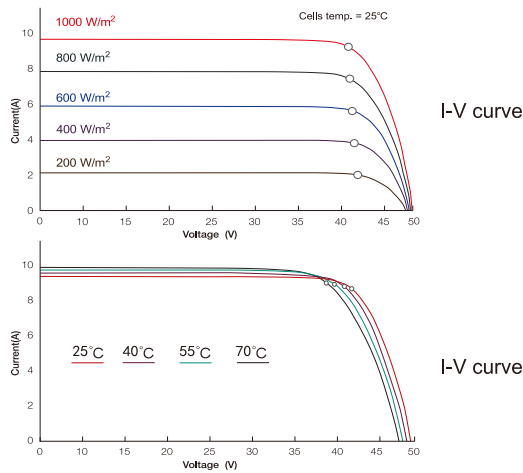
Module Type	MS435M-HP	MS440M-HP	MS445M-HP	MS450M-HP	MS455M-HP
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	435Wp	440Wp	445Wp	450Wp	455Wp
Maximum Power Voltage (Vmp)	41.24V	41.44V	41.63V	41.83V	42.02V
Maximum Power Current (Imp)	10.55A	10.62A	10.69A	10.76A	10.83A
Open-circuit Voltage (Voc)	49.59V	49.79V	49.99V	50.20V	50.40V
Short-circuit Current (Isc)	11.02A	11.08A	11.14A	11.20A	11.26A
Module Efficiency STC (%)	19.70%	19.90%	20.10%	20.40%	20.60%
Operating Temperature (°C)	-40°C~+85°C				
Maximum System Voltage	1500VDC/1000VDC				
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 Operating Cell Temperature (NOCT)	45±2°C				

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

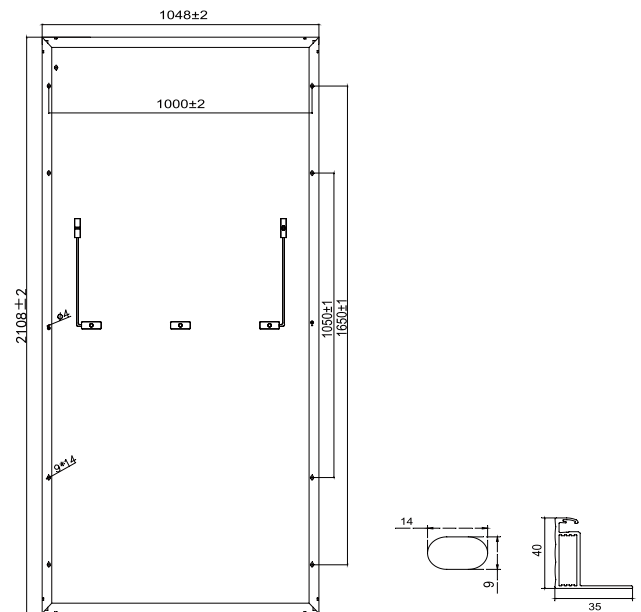
**NOCT:** Irradiance 800W/sqm Ambient Temp: 20 °C AM=1.5 Wind Speed 1m/s

\* Power measurement tolerance: -/+3%

## Characteristics and Operating Temperature



## Mechanical Diagrams



## Mechanical Characteristics

Cell Type	Mono PERC 166*83mm
No. of cells	144 (6×12+6×12)
Dimensions	2108x1048x40mm
Weight	24.30Kg 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	4mm² cable MC4 compatible

## Packaging Info

( Two pallets = One stack )

27pcs/pallet, 54pcs/stack, 540pcs/40'HQ Container, 235pcs/20' GP

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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