

**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  
STAR HC M144 370-390W  
MS380M-H**

Also available on the web at  
[EnergyPal.com/mysolar-usa-solar-panels/ms380m-h](http://EnergyPal.com/mysolar-usa-solar-panels/ms380m-h)

# Mysolar

## STAR HC M144

PERC HALF CELL  
MONO MODULE  
370 - 390W



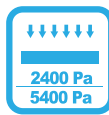
POSITIVE TOLERANCE 0~+6W  
PERC HALF CELL MONO 144 5BB

New Energy, Smart Living

### WHY MYSOLAR?



**5BB Solar Cells**  
Mysolar panels have 5BB cells 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.



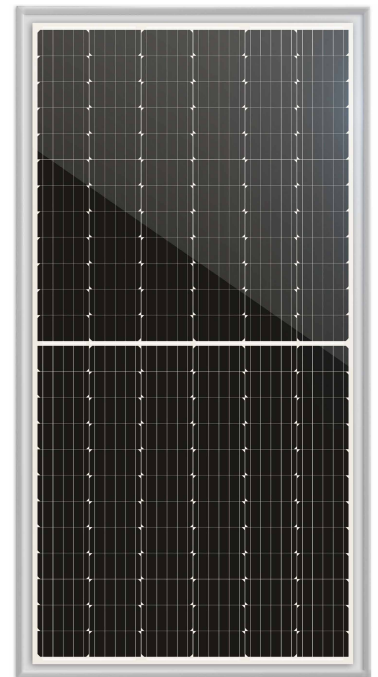
**Confident Warranty**  
Mysolar offers 12 years limited product warranty and 25 years performance warranty for all the solar modules.



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

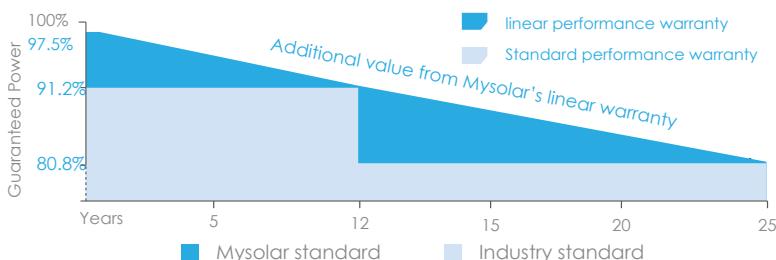


**High Reliability**  
Mysolar has complete testing facilities for tests of UV, TC, HF, EL, etc tests. 100% of Mysolar panels were tested & minimum twice EL tests guaranteed.



### 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	MS370M-H	MS375M-H	MS380M-H	MS385M-H	MS390M-H
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	370Wp	375Wp	380Wp	385Wp	390Wp
Maximum Power Voltage (Vmp)	39.20V	39.50V	39.80V	40.00V	40.20V
Maximum Power Current (Imp)	9.44A	9.49A	9.55A	9.63A	9.71A
Open-circuit Voltage (Voc)	47.30V	48.19V	48.56V	48.80V	49.05V
Short-circuit Current (Isc)	9.99A	10.06A	10.11A	10.19A	10.29A
Module Efficiency STC (%)	18.65%	18.90%	19.15%	19.41%	19.66%
Operating Temperature (°C)	-40°C~+85°C				
Maximum System Voltage	1500VDC (IEC)				
Maximum Series Fuse Rating	15A				
Power Tolerance	0~+6W				
Temperature Coefficients of Pmax	-0.39%/°C				
Temperature Coefficients of Voc	-0.29%/°C				
Temperature Coefficients of Isc	0.05%/°C				
Nominal Operating Cell Temperature (NOCT)	45±2°C				

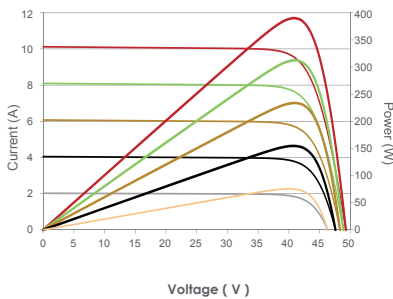
**STC:** Irradiance 1000W/sqm Cell Temp: 25 AM=1.5 °C

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

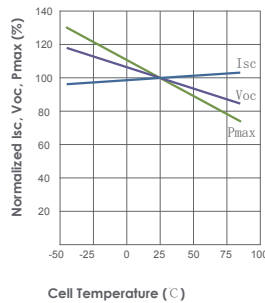
\* Power measurement tolerance: -/+3%

## Characteristics and Operating Temperature

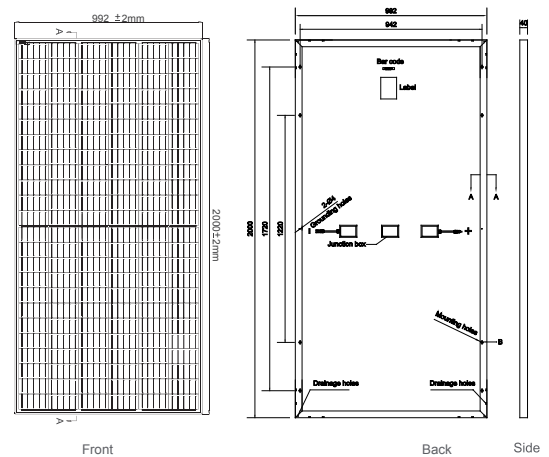
Current-Voltage Curve in Various Light Levels



Output in Various Temp Conditions

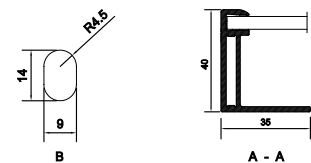


## Mechanical Diagrams



## Mechanical Characteristics

Cell Type	Mono PERC 156.75×78.375mm 5/6/9/12BB
No. of cells	144 (6×12+6×12)
Dimensions	2000×992×40mm (78.74×39.06×1.57 inch)
Weight	23kg (50.7 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67/IP68 Rated, 3 diodes
Cable & Connector	4mm <sup>2</sup> cable MC4 Compatible



## Packaging Info

( Two pallets = One stack )

27pcs/pallet, 54pcs/stack, 594pcs/40'HQ Container, 270pcs/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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**Mamibot Manufacturing USA Inc.**

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