

**For a Free Quote:**

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

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

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# **EnergyPal**

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

**Mysolar USA  
P60 Poly 270-290W  
MS285P-S**

Also available on the web at  
[EnergyPal.com/mysolar-usa-solar-panels/ms285p-s](http://EnergyPal.com/mysolar-usa-solar-panels/ms285p-s)

# Mysolar

## STAR P60

POLY MODULE

270-290W

POSITIVE TOLERANCE 0~+6W  
POLY 60 5BB CELL



Window Cleaning Robot  
Mamibot W120-T

Robot Vacuum Cleaner  
Mamibot Ysiam EXVAC6805

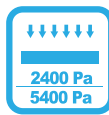
New Energy, Smart Living

### 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.



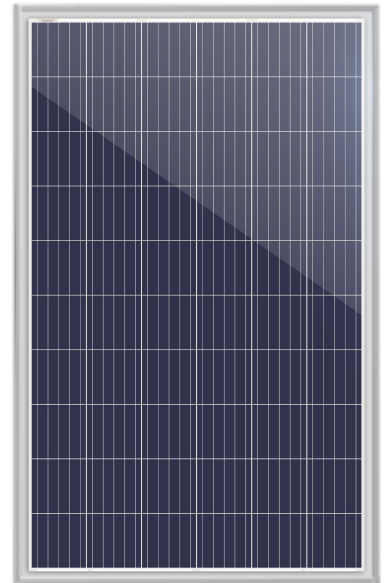
#### Higher Output

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



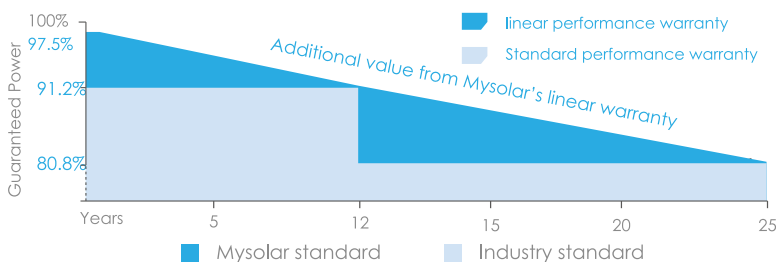
#### High Reliability

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	MS270P-S	MS275P-S	MS280P-S	MS285P-S	MS290P-S
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	270Wp	275Wp	280Wp	285Wp	290Wp
Maximum Power Voltage (Vmp)	31.38V	31.58V	31.78V	31.98V	32.2V
Maximum Power Current (Imp)	8.61A	8.71A	8.82A	8.92A	9.01A
Open-circuit Voltage (Voc)	38.29V	38.53V	38.78V	39.02V	39.28V
Short-circuit Current (Isc)	9.21A	9.32A	9.43A	9.55A	9.64A
Module Efficiency STC (%)	16.60%	16.90%	17.21%	17.52%	17.83%
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	-0.35%/°C				
Temperature Coefficients of Voc	-0.27%/°C				
Temperature Coefficients of Isc	0.04%/°C				
Nominal Operating Cell Temperature (NOCT)	45±2°C				

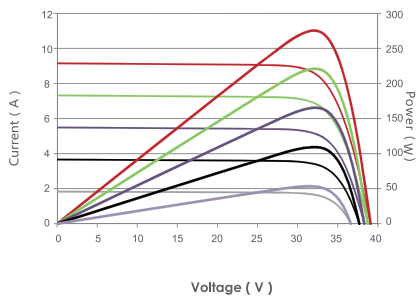
**STC:** Irradiance 1000W/sqm Cell Temp: 25 AM=1.5 °C

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

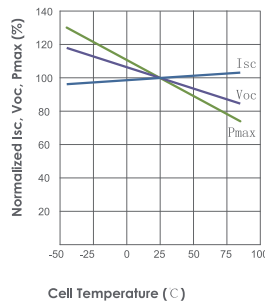
\* Power measurement tolerance: -/+3%

## Characteristics and Operating Temperature

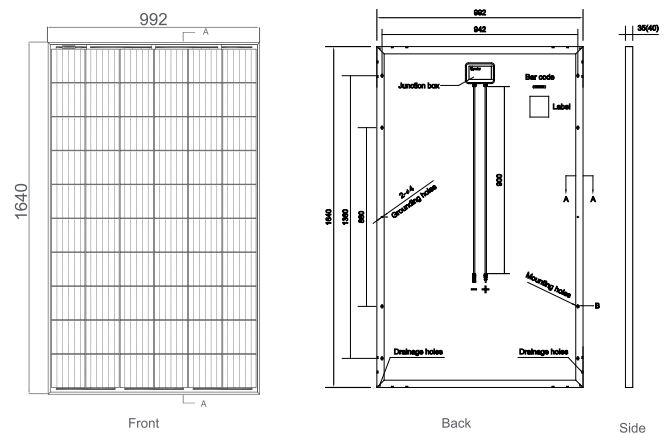
Current-Voltage Curve in Various Light Levels



Output in Various Temp Conditions

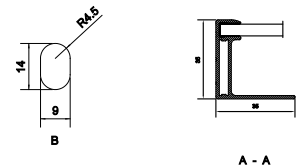


## Mechanical Diagrams



## Mechanical Characteristics

Cell Type	POLY 156.75×156.75mm(6.17×6.17inch)
No. of cells	60 (6×10)
Dimensions	1640×992×35/40mm(64.57×39.06×1.38/1.57inch)
Weight	18.3kg/18.75kg (40.34lbs/41.34 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 cable MC4 Compatible



## Packaging Info

(Two pallets = One stack)

30pcs/pallet, 60pcs/stack, 840pcs/40'HQ Container, 400pcs/20GP

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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