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EnergyPal

Solar Panel Guide Specification Data Sheet

**Mysolar USA
P120 Poly 280-300W
MS280P-H**

Also available on the web at
EnergyPal.com/mysolar-usa-solar-panels/ms280p-h

Mysolar

STAR HC P120

HALF CELL POLY MODULE 275-295W

POSITIVE TOLERANCE 0~+6W
POLY 120 5BB HALF CELL

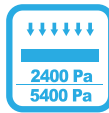


New Energy, Smart Living

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.



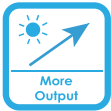
Salt-resistant & Ammonia-Resistant
Mysolar solar panels are salt mist and ammonia resistance certified.



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



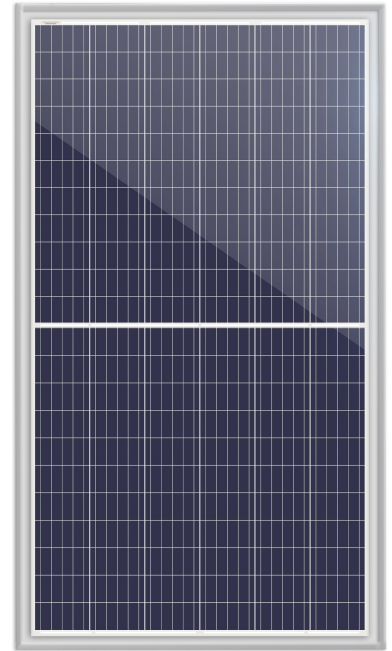
Confident Warranty
Mysolar offers 12 years limited product warranty and 25 years performance warranty for all the solar modules.



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

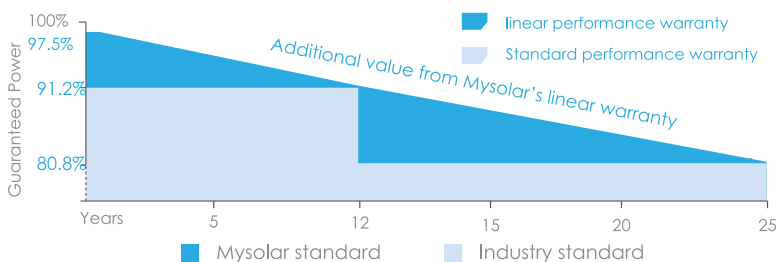


High Reliability
Mysolar has complete testing facilities for tests of UV, TC, HF, EL, etc tests. 100% of Mysolar panels were tested & minimum twice EL tests guaranteed.



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	MS275P-H	MS280P-H	MS285P-H	MS290P-H	MS295P-H
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	275Wp	280Wp	285Wp	290Wp	295Wp
Maximum Power Voltage (Vmp)	32.00V	32.20V	32.40V	32.60V	32.80V
Maximum Power Current (Imp)	8.60A	8.70A	8.80A	8.90A	9.00A
Open-circuit Voltage (Voc)	38.25V	38.42V	38.75V	38.75V	38.92V
Short-circuit Current (Isc)	9.20A	9.30A	9.40A	9.50A	9.60A
Module Efficiency STC (%)	16.55%	16.85%	17.15%	17.45%	17.75%
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	-0.32%/°C				
Temperature Coefficients of Isc	0.055%/°C				
Nominal Operating Cell Temperature (NOCT)	45±2°C				

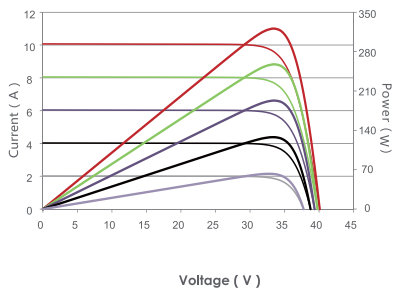
STC: Irradiance 1000W/sqm Cell Temp: 25 AM=1.5 °C

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

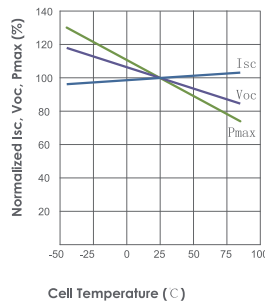
* Power measurement tolerance: -/+3%

Characteristics and Operating Temperature

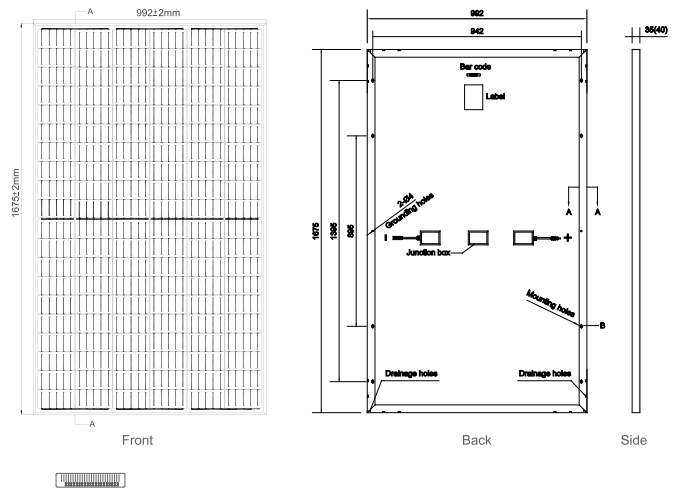
Current-Voltage Curve in Various Light Levels



Output in Various Temp Conditions

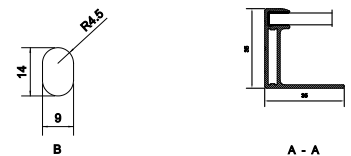


Mechanical Diagrams



Mechanical Characteristics

Cell Type	POLY HALF CELL 156.75×78.375mm(5/6/9/12BB)
No. of cells	120 (6×10×6×10)
Dimensions	1675×992×35mm /40mm(65.94×39.06×1.38 inch/1.57inch)
Weight	19.0 kg/19.5kg (41.9 lbs/43.0lbs)
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 ² cable MC4 Compatible



Packaging Info

(Two pallets = One stack)

30pcs/pallet, 60pcs/stack, 780pcs/40'HQ Container 360pcs/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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