

Mysolar

ALTRA HC M120

182 PERC MONO
HALF CELL MODULE

440-465W

POSITIVE TOLERANCE 0~+6W
SUPER PERC MONO 120 CELL

New Energy, Smart Living

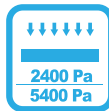


WHY MYSOLAR?



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 reduce 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.



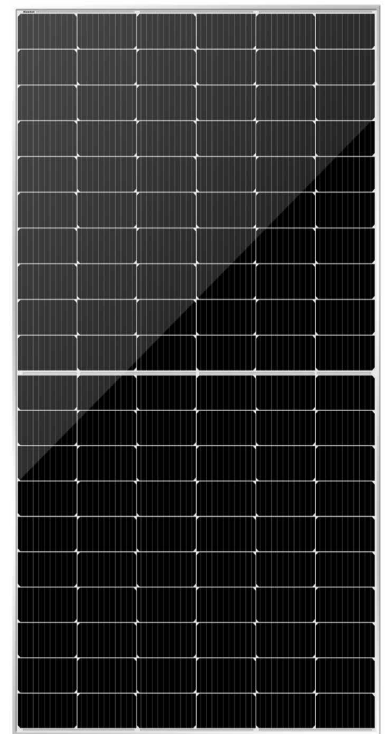
Higher Output

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



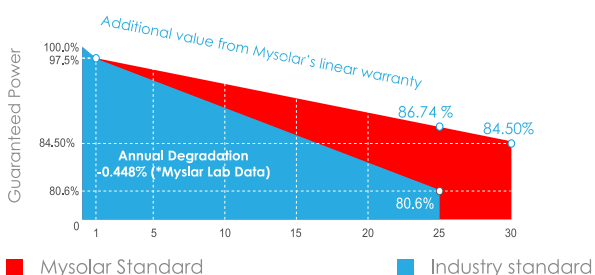
High Reliability

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



LINEAR PERFORMANCE WARRANTY

25 Year Product Warranty · 30 Year Linear Power Warranty



- * ISO9001: 2015 Quality management systems
- * ISO14001: 2015 Quality management systems
- * ISO 45001: 2018 Occupational health and safety management systems
- * IEC 61215/61730, UL 61215/61731 certified product



EU20-WEEE Compliant



Recyclable Packing



SPECIFICATIONS

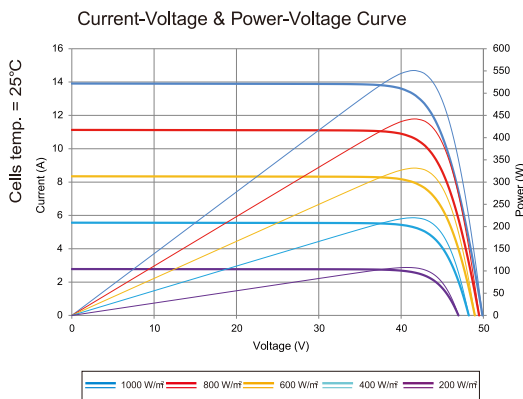
Module Type	MS465M-HA		MS460M-HA		MS455M-HA		MS450M-HA		MS445M-HA		MS440M-HA	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax)	465W	350.5W	460W	347.1W	455W	343.5W	450W	340.0W	445W	336.3W	440W	332.6W
Maximum Power Voltage (Vmp)	35.18V	32.9V	35.04V	32.7V	34.90V	32.4V	34.73V	32.2V	34.58V	32.0V	34.41V	31.8V
Maximum Power Current (Imp)	13.22A	10.77A	13.13A	10.70A	13.04A	10.63A	12.96A	10.58A	12.87A	10.53A	12.79A	10.47A
Open-circuit Voltage (Voc)	41.68V	39.5V	41.54V	39.3V	41.36V	39.1V	41.20V	38.8V	41.04V	38.7V	40.91V	38.5V
Short-circuit Current (Isc)	14.09A	11.26A	14.02A	11.22A	13.95A	11.18A	13.87A	11.13A	13.79A	11.08A	13.70A	11.02A
Module Efficiency STC (%)	21.4%		21.2%		21.0%		20.8%		20.6%		20.3%	
Operating Temperature (°C)	-40°C~+85°C											
Maximum System Voltage	1500VDC											
Maximum Series Fuse Rating	25A											
Power Tolerance	0~+6W											
Temperature Coefficients of Pmax	-0.36%/°C											
Temperature Coefficients of Voc	-0.304%/°C											
Temperature Coefficients of Isc	0.050%/°C											
Nominal Operating Cell Temperature (NOCT)/ Nominal Module Operating Temperature (NMOT)	45±2°C/ 42±2°C											

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

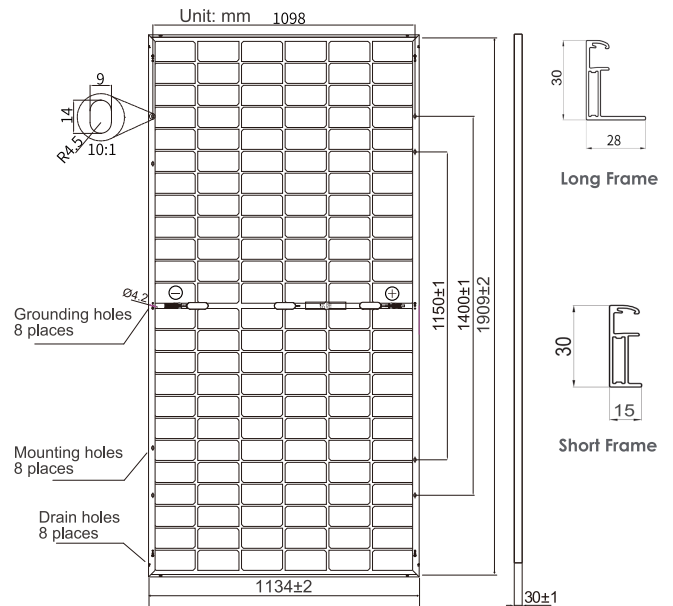
NOCT: Irradiance 800W/sqm Ambient Temp: 20 °C AM=1.5 Wind Speed 1m/s

* Power measurement tolerance: -/+3%

Characteristics and Operating Temperature



Mechanical Diagrams



Mechanical Characteristics

Cell Type	Mono PERC 182*91mm
No. of cells	120 (6×10+6×10)
Dimensions	1909±2 x 1134±2 x 30±1 mm
Weight	23.80Kg Approx
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated, 3 diodes, 300mm cable/Customized
Cable & Connector	4mm ² (IEC), 12 AWG (UL) MC4 compatible

Packaging Info

(Two pallets = One stack)

36pcs/pallet, 864pcs/40'HQ Container

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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