

Mysolar

ALTRA HC M144

182 PERC MONO
HALF CELL MODULE

540-560W

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

New Energy, Smart Living

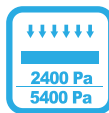


WHY MYSOLAR?



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 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 25 years limited product warranty and 30 years performance warranty for Bifacial solar modules.



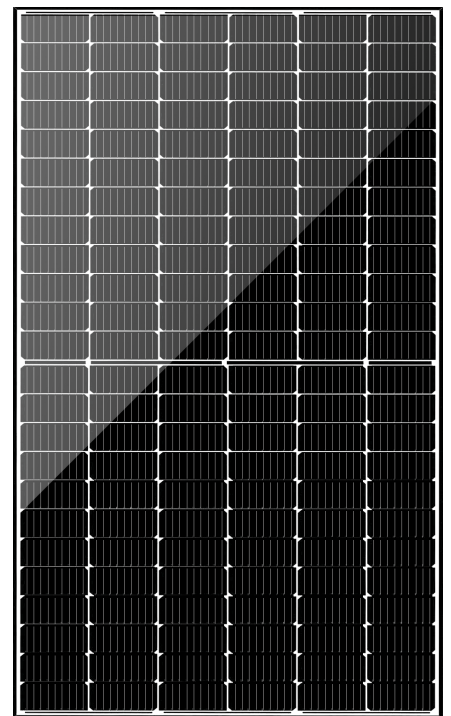
Higher Output

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



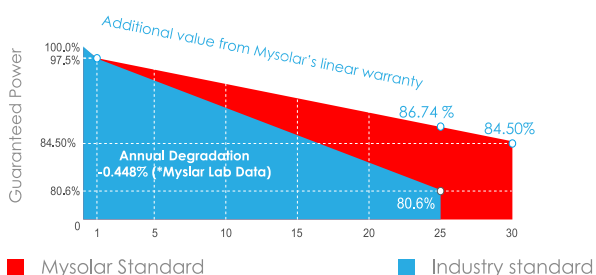
High Reliability

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



LINEAR PERFORMANCE WARRANTY

25 Year Product Warranty · 30Year 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



SPECIFICATIONS

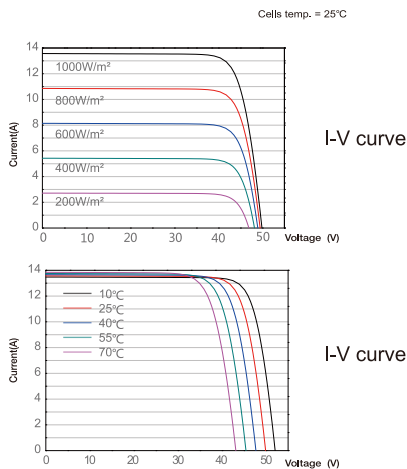
Module Type	MS540M-HA		MS545M-HA		MS550M-HA		MS555M-HA		MS560M-HA	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	540Wp	408Wp	545Wp	412Wp	550Wp	416Wp	555Wp	420Wp	560Wp	424Wp
Maximum Power Voltage (Vmp)	41.64V	38.99V	41.80V	39.20V	41.95V	39.43V	42.18V	39.66V	42.30V	39.89V
Maximum Power Current (Imp)	12.98A	10.47A	13.05A	10.51A	13.12A	10.55A	13.16A	10.59A	13.24A	10.63A
Open-circuit Voltage (Voc)	49.60V	46.43V	49.75V	46.55V	49.90V	46.68V	50.03V	46.81V	50.15V	46.94V
Short-circuit Current (Isc)	13.86A	11.09A	13.93A	11.13A	14.00A	11.17A	14.04A	11.21A	14.12A	11.25A
Module Efficiency STC (%)	20.90%		21.10%		21.30%		21.50%		21.70%	
Operating Temperature (°C)	-40°C~+85°C									
Maximum System Voltage	1500VDC/1000VDC									
Maximum Series Fuse Rating	25A									
Power Tolerance	0~+6W									
Temperature Coefficients of Pmax	-0.35%/°C									
Temperature Coefficients of Voc	-0.275%/°C									
Temperature Coefficients of Isc	0.045%/°C									
Nominal Operating Cell Temperature (NOCT)	45±2°C									

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

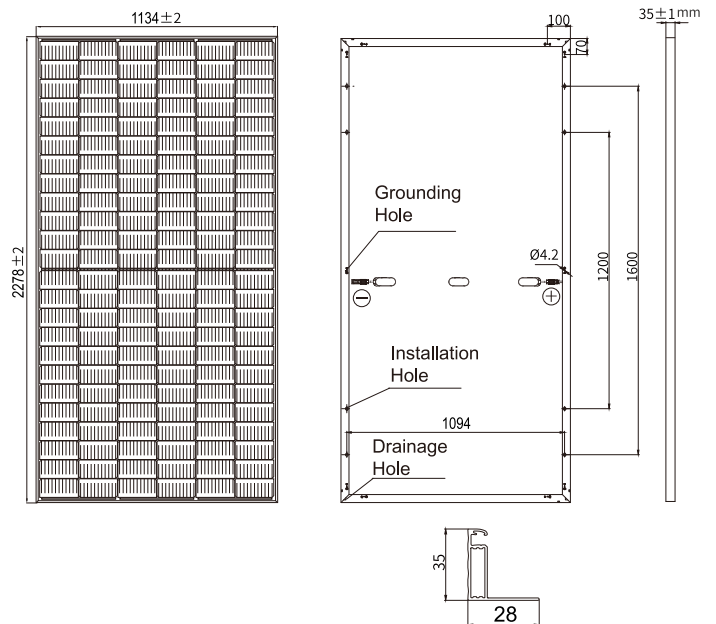
NOCT: Irradiance 800W/sqm Ambient Temp: 20 °C AM=1.5 Wind Speed 1m/s

* Power measurement tolerance: -/+3%

Characteristics and Operating Temperature



Mechanical Diagrams



Mechanical Characteristics

Cell Type	Mono PERC 182*91mm
No. of cells	144 (6×12×6×12)
Dimensions	2278x1134x35mm
Weight	28.50Kg 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 (+)300mm, (-)300mm MC4 compatible

Packaging Info

(Two pallets = One stack)

31 pcs/pallet, 620 pcs/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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