



## ALTRA N-Type TopCon Bifacial

### 565-585W Solar Module Dual-Glass Framed N144

POSITIVE TOLERANCE 0~+6W  
HALF CELL MONO 144

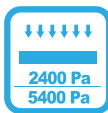
New Energy, Smart Living

#### 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 1500V and reduces BoS cost greatly.



##### No LID & Better PID Resistant

NZero B-O band on N-type cells results in Zero LID and a better PID resistance to the modules.



##### 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.



##### Positive Tolerance

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



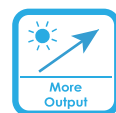
##### Confident Warranty

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



##### Dual Side Power Producing

Mysolar N-type bifacial panels have up to 85% bifaciality, generates up to 25.5% more energy yield than conventional panels.



##### Higher Output

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



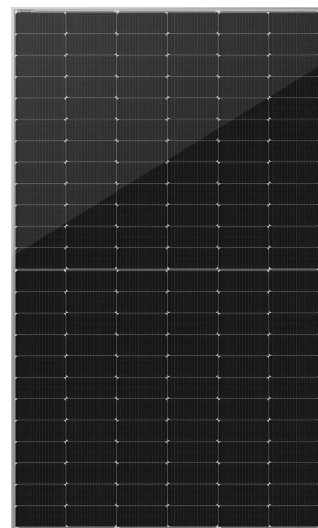
##### High Reliability

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



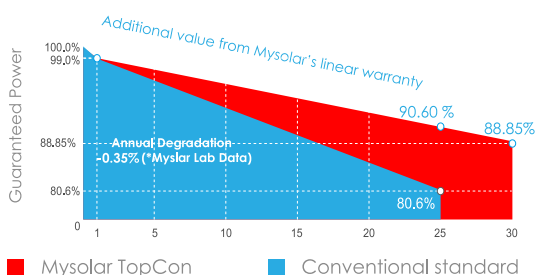
##### More Options for Solar Projects

More possible purposes like vertical installations, BIPV's, areas of high humidity, strong wind/snow, and deserts.



#### LINEAR PERFORMANCE WARRANTY

25 Year Product Warranty · 30 Year Linear Power Warranty



- ISO9001:2015 Quality management systems
- ISO14001: 2015 Quality management systems
- ISO45001: 2018 Occupational health and safety management systems
- IEC61215, IEC61730, UL1703 certified product



## SPECIFICATIONS (STC\*)

Module Type	MS565N-DHBA	MS570N-DHBA	MS575N-DHBA	MS580N-DHBA	MS585N-DHBA
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	565Wp	570Wp	575Wp	580Wp	585Wp
Maximum Power Voltage (Vmp)	41.92V	42.07V	42.22V	42.37V	42.52V
Maximum Power Current (Imp)	13.48A	13.55A	13.63A	13.70A	13.77A
Open-circuit Voltage (Voc)	50.60V	50.74V	50.88V	51.02V	51.16V
Short-circuit Current (Isc)	14.23A	14.31A	14.39A	14.47A	14.55A
Module Efficiency STC (%)	21.90%	22.10%	22.26%	22.45%	22.65%
Operating Temperature (°C)	-40°C~+85°C				
Maximum System Voltage	1500VDC (IEC)				
Maximum Series Fuse Rating	30A				
Power Tolerance	0~+6W				
Temperature Coefficients of Pmax	-0.290%/°C				
Temperature Coefficients of Voc	-0.250%/°C				
Temperature Coefficients of Isc	0.045%/°C				
Nominal Module Operating Temperature (NMOT)	42±2°C				

## REAR SIDE POWER GAIN (BIFACIAL OUTPUT, for 570W)

Power Gain	5%	10%	15%	20%	25%	30%
Maximum Power (Pmax)	599Wp	627Wp	656Wp	684Wp	713Wp	741Wp
Maximum Power Voltage (Vmp)	42.07V	42.07V	42.07V	42.07V	42.07V	42.17V
Maximum Power Current (Imp)	14.23A	14.90A	15.59A	16.25A	16.95A	17.61A
Open-circuit Voltage (Voc)	50.74V	50.74V	50.74V	50.84V	50.84V	50.84V
Short-circuit Current (Isc)	15.02A	15.74A	16.45A	17.17A	17.88A	18.60A

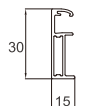
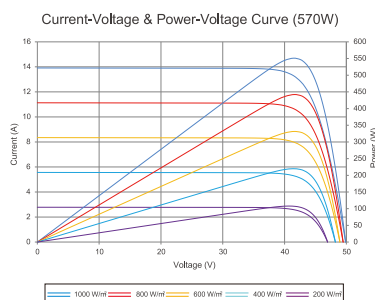
**NMOT\*** (Nominal Module Operating Temperature):

Irradiance 800W/sqm, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

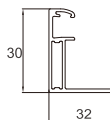
\*Power measurement tolerance: -/+3%

## Mechanical Characteristics

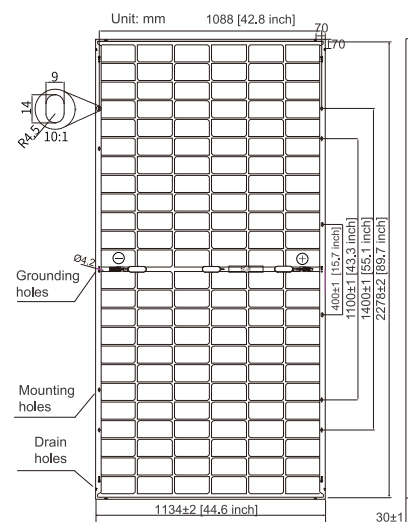
Cell Type	N-type TopCon 182×91mm
No. of cells	144 (6×12+6×12)
Dimensions	2278×1134×30mm
Weight	31.60KG ±2%
Glass	2.0mm Anti-Reflection Coating, High Transmission, Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	IP68 Rated, 3 diodes
Cable & Connector	4mm <sup>2</sup> cable: 400mm(+)/200mm(-) or customized, MC4 compatible



Short Side



Long Side



## Packaging Info

( Two pallets = One stack )

36pcs/pallet, 720pcs/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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**Mamibot Manufacturing USA Inc.**

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