

# ALTRA N-TYPE TopCon

## 420-440W Solar Module Mono-facial Framed N108

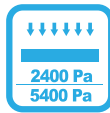
POSITIVE TOLERANCE 0~+6W  
HALF CELL MONO 108  
New Energy, Smart Living

### 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 TopCon mono-facial panels are designed compatible with the 1000V/1500V system voltage, which can reduce 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 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.



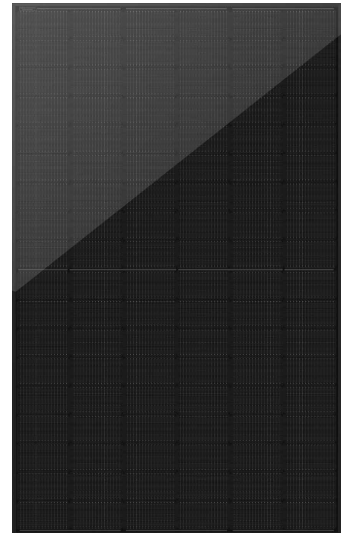
#### Higher Output

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



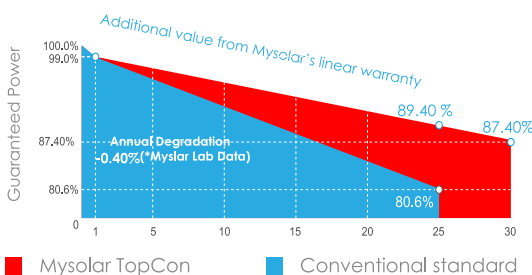
#### High Reliability

Mysolar has complete testing facilities for tests of UV, TC, HF, EL, etc tests. 100% of Mysolar panels were tested & minimally 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
- ISO45001: 2018 Occupational health and safety management systems
- IEC61215, IEC61730, UL1703 certified product



# SPECIFICATIONS (STC\*)

Module Type	MS420N-HA	MS425N-HA	MS430N-HA	MS435N-HA	MS440N-HA
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	420W	425W	430W	435W	440W
Maximum Power Voltage (Vmp)	31.51V	31.70V	31.89V	32.08V	32.27V
Maximum Power Current (Imp)	13.33A	13.41A	13.49A	13.57A	13.65A
Open-circuit Voltage (Voc)	38.11V	38.30V	38.49V	38.68V	38.87V
Short-circuit Current (Isc)	14.07A	14.15A	14.23A	14.31A	14.39A
Module Efficiency STC (%)	21.50%	21.80%	22.02%	22.28%	22.53%
Operating Temperature (°C)	-40°C~+85°C				
Maximum System Voltage	1500/1000VDC (IEC)				
Maximum Series Fuse Rating	25A				
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				

# ELECTRICAL DATA (NMOT\*)

Module Type	MS420N-HA	MS425N-HA	MS430N-HA	MS435N-HA	MS440N-HA
Maximum Power at NMOT (Pmax)	315.7Wp	319.5Wp	323.0Wp	327.0Wp	330.7Wp
Maximum Power Voltage (Vmp)	31.51V	31.70V	31.89V	32.08V	32.27V
Maximum Power Current (Imp)	13.33A	13.41A	13.49A	13.57A	13.65A
Open-circuit Voltage (Voc)	38.11V	38.30V	38.49V	38.68V	38.87V
Short-circuit Current (Isc)	14.07A	14.15A	14.23A <td 14.31A	14.39A	

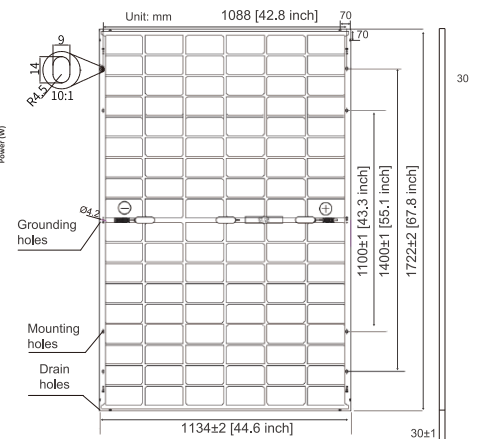
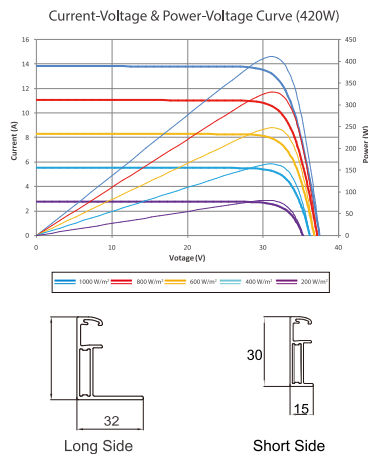
**NMOT\*** (Nominal Module Operating Temperature):

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	108 (6×9×6×9)
Dimensions	1722±2 x 1134±2 x 30±1 mm
Weight	21.60KG ±2%
Glass	3.2mm Anti-Reflection Coating, High Transmission, Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	IP68 Rated, 3 diodes
Cable & Connector	4mm <sup>2</sup> (IEC), 12 AWG(UL) 400mm(+)/200mm(-) or Customized. MC4 compatible



## Packaging Info

( Two pallets = One stack )

36pcs/pallet, 936pcs/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.

**Mysolar** is a **Mamibot** company and brand, **Mysolar** and **Mamibot** are trademarks of Mamibot Manufacturing USA Inc.

**Mamibot Manufacturing USA Inc.**

www.mamibot.com Tel: 001 302 428 9888 sales@mamibot.com Head Office: Orange St. #600, Wilmington, New Castle, 19899, Delaware, USA

**Mysolar Manufacturing (Shanghai) Co., Ltd.**

www.imysolar.com www.mamibot.com/mysolar Tel: 0086 21 62147369 North Part, 21ST Fl, No.1, LN1040, Caoyang Rd, Putuo Dist, Shanghai, P.R.C.