

ALTRA N-Type TopCon Bifacial

570-600W 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 designed for 1500V system, ensuring full compatible and greatly reducing BoS cost.



No LID & Better PID Resistance

Zero 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.



Dual Side Power Producing

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



Higher Output

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



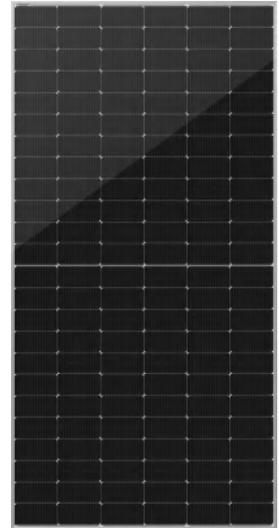
High Reliability

Mysolar has complete facilities for UV, TC, HF, EL, and other tests. Every Mysolar panel is 100% tested & minimally twice EL tests guaranteed.



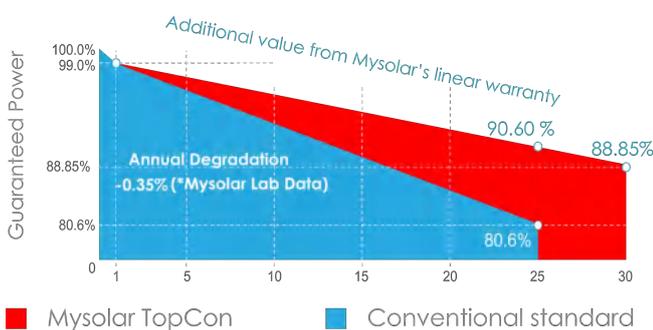
More Options for Solar Projects

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 Environment management systems
 ISO45001: 2018 Occupational health and safety management systems
 IEC61215, IEC61730, UL1703 certified product



ELECTRICAL CHARACTERISTICS AT STC (*)

Module Type	MSxxxNC-DHBA (xxx=570~600)						
Maximum Power (Pmax)	570W	575W	580W	585W	590W	595W	600W
Open-Circuit Voltage (Voc)	50.74V	50.88V	51.02V	51.16V	51.30V	51.44V	51.58V
Short-Circuit Current (Isc)	14.31A	14.39A	14.47A	14.55A	14.63A	14.71A	14.79A
Voltage at Maximum Power (Vmp)	42.07V	42.22V	42.37V	42.52V	42.67V	42.82V	42.97V
Current at Maximum Power (Imp)	13.55A	13.62A	13.69A	13.76A	13.83A	13.90A	13.97A
Module Efficiency (%)	22.07	22.26	22.45	22.65	22.84	23.03	23.23
Operating Temperature(°C)	-40°C to +85°C						
Maximum System Voltage	1500V DC						
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						

REARSIDE POWER GAIN (BIFACIAL OUTPUT, for 590W)

Power Gain	5%	10%	15%	20%	25%	30%
Maximum Power (Pmax)	620W	649W	679W	708W	738W	767W
Open-Circuit Voltage (Voc)	51.30V	51.30V	51.30V	51.30V	51.30V	51.30V
Short-Circuit Current (Isc)	15.36A	16.09A	16.82A	17.56A	18.29A	19.02A
Voltage at Max Power (Vmp)	42.67V	42.67V	42.67V	42.67V	42.67V	42.67V
Current at Maximum Power (Imp)	14.53A	15.21A	15.92A	16.53A	17.30A	17.98A

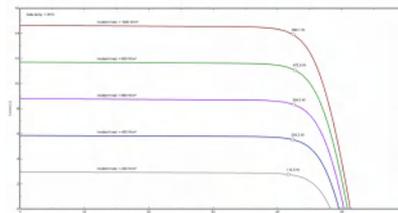
NMOT* (Nominal Module Operating Temperature):
Irradiance 800W/sqm, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s
*Power measurement tolerance: -/+3%

Drawing Unit:mm

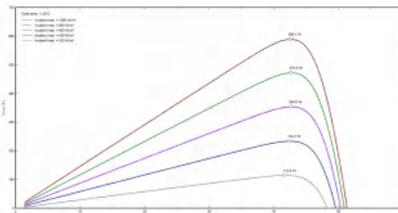
Mechanical Characteristics

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 ² Cable: 300mm(+)/300mm(-) or customized. MC4 compatible

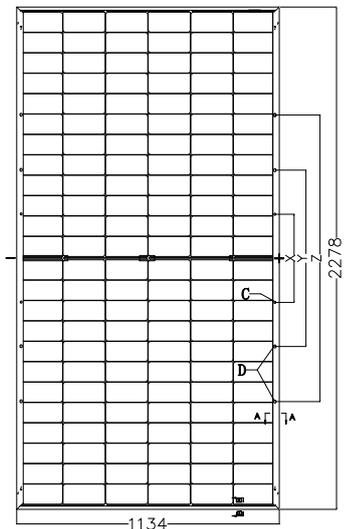
I-V Curve Module : MS590NC-DHBA



Current-Voltage Curves at Different Irradiances

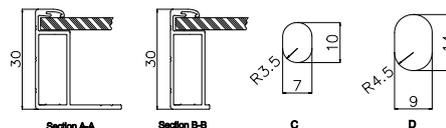


Power-Voltage Curves at Different Irradiances



Packaging Info

36/37pcs/pallet, 720/740pcs/40'HQ Container



1:X=400,Y=790, Z=1400
2:X=400,Y=1100,Z=1400
3:X=400,Y=1400,Z=1900

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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