

ALTRA N-Type HJT BIFACIAL

430-450W SOLAR MODULE FRAMED N108

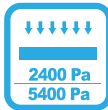


POSITIVE TOLERANCE 0~+6W
HALF CELL N-TYPE HJT
New Energy, Smart Living

WHY MYSOLAR HJT?


SMBB HJT CELLS

Mysolar's HJT SMBB technology reduces current heat loss of cells and increases the module efficiency to 22.80% in mass production


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, no PID

Zero B-O band on N-type HJT cells results in zero LID to the modules. TCO Surface layers on the HJT avoid PID 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 30 years limited product warranty and 30 years performance warranty for the Shingled and HJT panels.


Dual Side Power Producing

Mysolar HJT bifacial panels have up to 95% bifaciality, generate up to 25.5% more energy yield


Higher Output

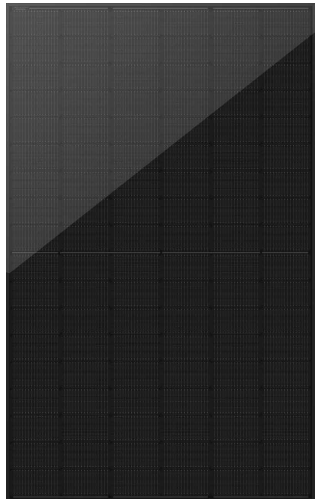
With the Patented HJT technology, Mysolar's panels have up to 710W output, much higher than its competitors'.


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.

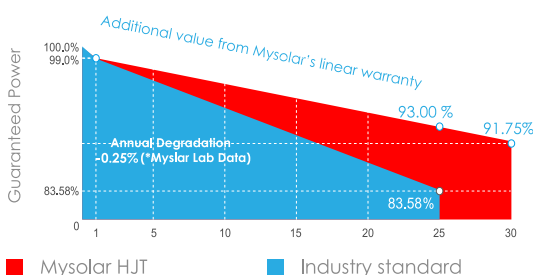

More Options for Solar Projects

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



LINEAR PERFORMANCE WARRANTY

30 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	MS430NF-HJTAB	MS435NF-HJTAB	MS440NF-HJTAB	MS445NF-HJTAB	MS450NF-HJTAB
	STC	STC	STC	STC	STC
Maximum Power (Pmax)	430Wp	435Wp	440Wp	445Wp	450Wp
Maximum Power Voltage (Vmp)	33.71V	33.87V	34.03V	34.19V	34.35V
Maximum Power Current (Imp)	12.76A	12.84A	12.93A	13.01A	13.10A
Open-circuit Voltage (Voc)	40.18V	40.18V	40.30V	40.30V	40.50V
Short-circuit Current (Isc)	13.29A	13.35A	13.40A	13.45A	13.50A
Module Efficiency STC (%)	22.02%	22.28%	22.53%	22.79%	23.04%
Operating Temperature (°C)	-40°C~+85°C				
Maximum System Voltage	1500VDC (IEC)				
Maximum Series Fuse Rating	25A				
Power Tolerance	0~+6W				
Temperature Coefficients of Pmax	-0.260%/°C				
Temperature Coefficients of Voc	-0.240%/°C				
Temperature Coefficients of Isc	0.040%/°C				
Nominal Module Operating Temperature (NMOT)	42.30±2°C				

REAR SIDE POWER GAIN (BIFACIAL OUTPUT, FOR 450W)

Power Gain	5%	10%	15%	20%	25%	30%
Maximum Power (Pmax)	472.5Wp	495Wp	517.5Wp	540Wp	562.5Wp	585Wp
Maximum Power Voltage (Vmp)	34.35V	34.35V	34.35V	34.35V	34.35V	34.35V
Maximum Power Current (Imp)	13.76A	14.41A	15.06A	15.72A	16.38A	17.03A
Open-circuit Voltage (Voc)	40.50V	40.50V	40.50V	40.50V	40.50V	40.50V
Short-circuit Current (Isc)	14.18A	14.85A	15.53A	16.20A	16.88A	17.55A

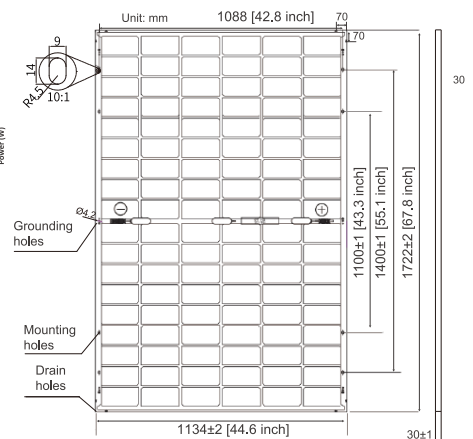
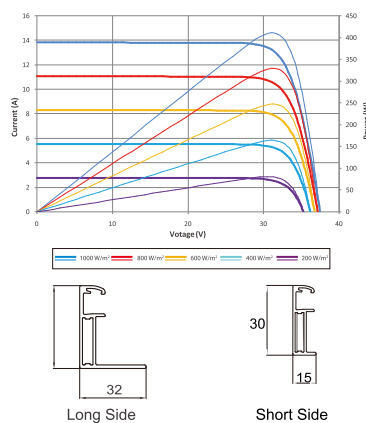
NMOT* (Nominal Module Operating Temperature):
Irradiance 800W/sqm, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

*Power measurement tolerance: -/+3%

Mechanical Characteristics

Cell Type	N-type HJT 182×91mm
No. of cells	108 (6*9+6*9)
Dimensions	1722×1134×30mm (±1mm)
Weight	25.90/22.10KG ±2%
Glass	1.6/2.0mm Anti-Reflection Coating, High Transmission, Tempered Glass
Frame	Anodized aluminium alloy
Junction Box	IP68 Rated, 3 diodes
Cable & Connector	4mm ² cable: +1.2m/-1.2m or Customized MC4 compatible

Current-Voltage & Power-Voltage Curve (440W)



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.

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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.