

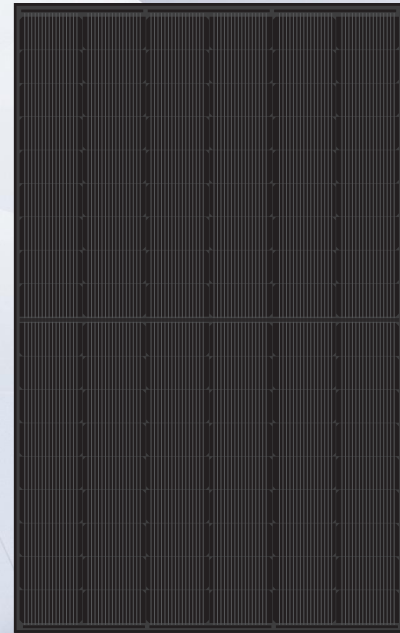
TOPCON

Monofacial
410~430W


SN(410~430W)-108MTF


Mono MBB **N-type** large size half cut module


Max Cell Efficiency 24.1%





KEY FEATURES


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Sine Energy Topcon solar modules adopts the latest 16 bus bar technology decrease the current transverse propagation path by 50% and improve the efficiency of the modules up to 22%.
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Low LCOE 5-25w higher than Perc modules with the same size result in lower LCOE and O/M cost.
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LETID LID N type topcon modules has better reliability in harsh environment and lower LID/LETID.
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N type Topcon solar cells makes longer life span, lower degradation and better performance in weak light conditions.
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Half cut cell and optimized circuit design as well split junction box makes lower the power loss caused by shadow and mismatch.
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Lower thermal coefficient for higher power generation at higher temperature.
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Selected encapsulating materials and stringent production process controls ensures highly PID resistant.
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Ideal for usage in residential rooftops, commercial and large-scale plants.

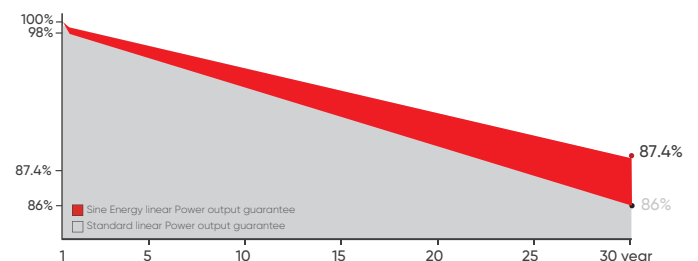
CERTIFICATION

IEC61215 | IEC61730 | IEC 61701 | CE | INMETRO
ISO 9001
2015 Quality Management System
ISO 14001
2015 Environmental Management System
ISO45001
2018 Occupational Health and Safety Management System



INDUSTRY LEADING WARRANTY

- 12 years** Guarantee on product material and workmanship
- 30 years** Linear power output warranty



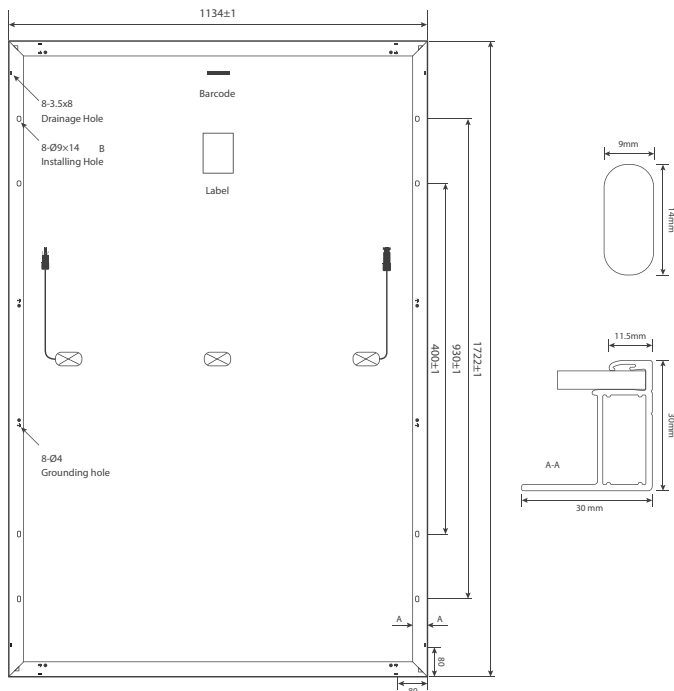
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Weight
19.5kg

Number of Cells
108pcs(18×6)

Module Size
1722×1134×30mm

Packing
36pcs/pallet,936pcs/40HQ



MECHANICAL SPECIFICATIONS

Solar Cell Type	182×91mm
Glass	3.2mm tempered, high transmission ART coating
Back Sheet	White KPF
Frame	Silver Anodized Aluminium Alloy
Junction Box	IP68
No. of Diodes	3pcs
Output Cable	4.0mm ² 400/400mm (custmized available)
Connector	MC4 Compatible (MC4 Original optional)
Wind/Snow Load	2400pa/5400pa

TEMPERATURE COEFFICIENT

Nominal Operating Cell Temp(NOCT)	44±2 C
Temperature Coefficient of ISC	0.060% C
Temperature Coefficient of VOC	-0.30% C
Temperature Coefficient of Pmax	-0.39% C
Operational Temperature	-40~85 C
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	25A

ELECTRICAL SPECIFICATION (STC)

	410W	415W	420W	425W	430W
Maximum Power -Pmax(W)	410W	415W	420W	425W	430W
Maximum Power Voltage-Vmp(V)	31.15V	31.34V	31.53V	31.72V	31.88V
Maximum Power Current-Imp(A)	13.16A	13.24A	13.32A	13.40A	13.48A
Open Circuit Voltage -Voc(V)	37.75V	37.94V	38.13V	38.32V	38.51V
Short Circuit Current-Isc(A)	13.90A	13.98A	14.07A	14.14A	14.22A
Module Efficiency(STC) -ηm(%)	21%	21.25%	21.51%	21.76%	22.02%
Power output tolerance(W)	0~+5W				

STC:Irradiance:1000W/m², Module Temperature:25°C,Air Mass:1.5

Electrical Specification (NOCT)

	308W	312W	316W	320W	324W
Maximum Power -Pmax(W)	308W	312W	316W	320W	324W
Maximum Power Voltage-Vmp(V)	29.08V	29.23V	29.36V	29.52V	29.65V
Maximum Power Current-Imp(A)	10.60A	10.67A	10.75A	10.82A	10.90A
Open Circuit Voltage -Voc(V)	35.86V	36.04V	36.22V	36.40V	36.58V
Short Circuit Current-Isc(A)	11.22A	11.28A	11.35A	11.41A	11.48A

NOCT:Irradiance:800W/m², Ambient Temperature:20°C,Air Mass:1.5,Wind Speed:1m/s

I-V Curve

