

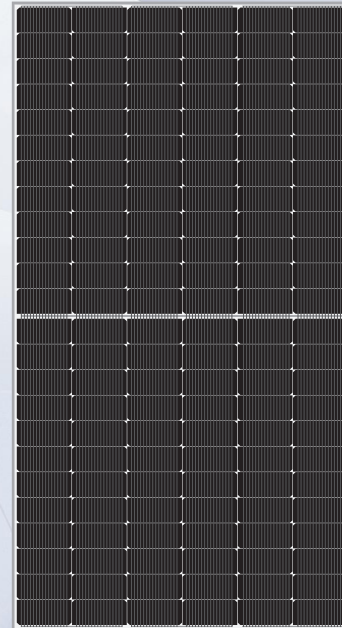
TOPCON

Monofacial


560~580W


SN(560~580W)-144MT **16BB** ▶


Mono MBB N-type large size half cut module





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%.
- 


5~25w higher than Perc modules with the same size result in lower LCOE and O/M cost.
- 

N type topcon modules has better reliability in harsh environment and lower LID/LETID.
- 

N type Topcon solar cells makes longer life span, lower degradation and better performance in week light conditons
- 

Half cut cell and optimized circuit design as well split junctin 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.

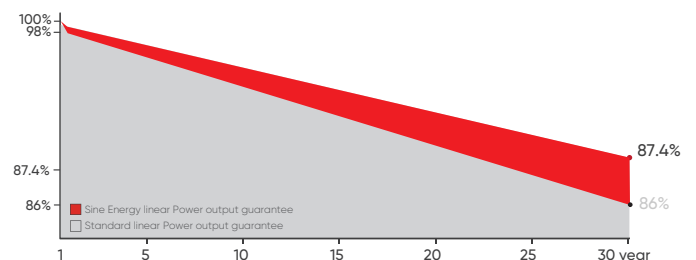
CERTIFICATION

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



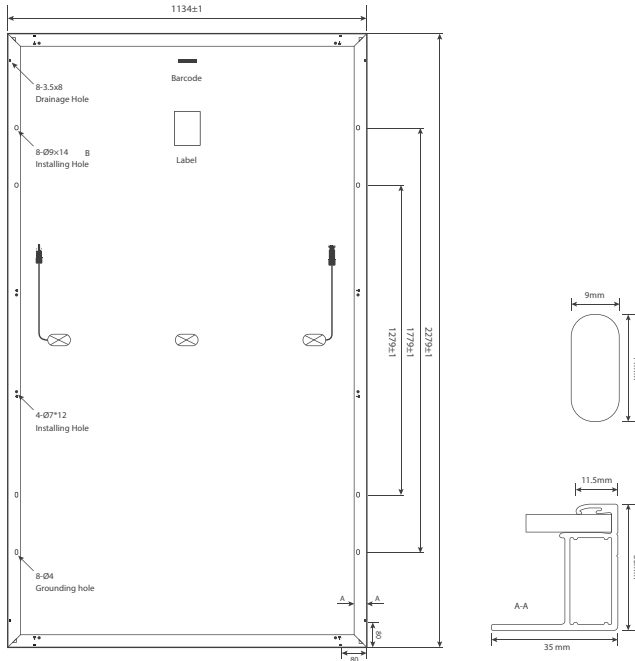
SN(560~580W)-144MT

Weight
26.5kg

Number of Cells
144pcs(24×6)

Module Size
2278×1134×35mm

Packing
31pcs/pallet,620pcs/40HQ



MECHANICAL SPECIFICATIONS

Solar Cell Type	182×91mm
Glass	3.2mm tempered, high transmission ART coating
Back Sheet	Black 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)

	560W	565W	570W	575W	580W
Maximum Power -Pmax(W)	560W	565W	570W	575W	580W
Maximum Power Voltage-Vmp(V)	41.79V	41.94V	42.09V	42.24V	42.39V
Maximum Power Current-Imp(A)	13.42A	13.49A	13.56A	13.63A	13.70A
Open Circuit Voltage -Voc(V)	50.48V	50.61V	50.75V	50.88V	51.02V
Short Circuit Current-Isc(A)	14.15A	14.23A	14.31A	14.39A	14.47A
Module Efficiency(STC) -ηm(%)	21.67%	21.86%	22.06%	22.25%	22.44%
Power output tolerance(W)	0~+5W				

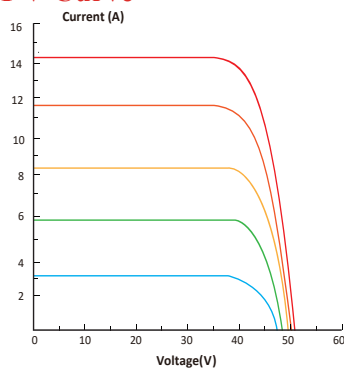
STC:Irradiance:1000W/m², Module Temperature:25°C,Air Mass:1.5

Electrical Specification (NOCT)

	421W	425W	429W	433W	437W
Maximum Power -Pmax(W)	421W	425W	429W	433W	437W
Maximum Power Voltage-Vmp(V)	39.26V	39.39V	39.52V	39.65V	39.78V
Maximum Power Current-Imp(A)	10.72A	10.79A	10.86A	10.92A	10.99A
Open Circuit Voltage -Voc(V)	47.95V	48.07V	48.21V	48.34V	48.47V
Short Circuit Current-Isc(A)	11.42A	11.49A	11.55A	11.62A	11.69A

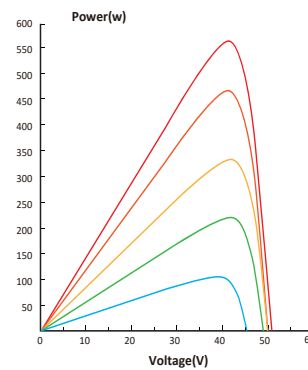
NOCT:Irradiance:800W/m², Ambient Temperature:20°C,Air Mass:1.5,Wind Speed:1m/s

I-V Curve



Current-Voltage Curve(570W)

— 1000W/m²
— 800W/m²
— 600W/m²
— 400W/m²
— 200W/m²



Power-Voltage Curve(570W)

— 1000W/m²
— 800W/m²
— 600W/m²
— 400W/m²
— 200W/m²