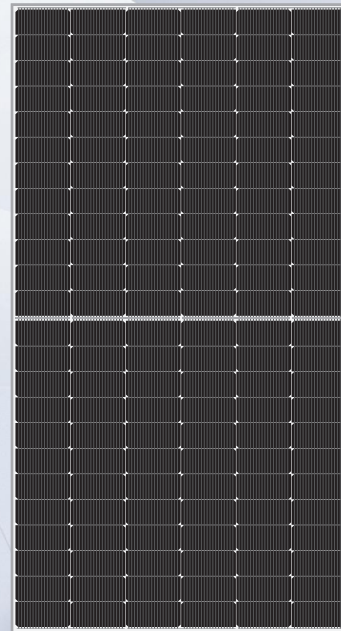


TOPCON


Double Glass Bifacial 570~600W


SN(570~600W)-144MTB **18BB** ▶


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





KEY FEATURES


- 


Sine Energy Topcon solar modules adopts the latest 18 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 weak light conditions.
- 

Half cut cell and optimized circuit design as well split junction box makes lower the power loss caused by shadow and mismatch.
- 

Lower thermal coefficient for higher power generation at higher temperature.
- 

Selected encapsulating materials and stringent production process controls ensures highly PID resistant.
- 

Ideal for usage in residential rooftops, commercial and large-scale plants.

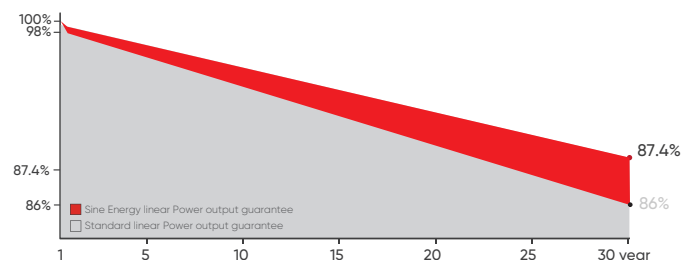
CERTIFICATION

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



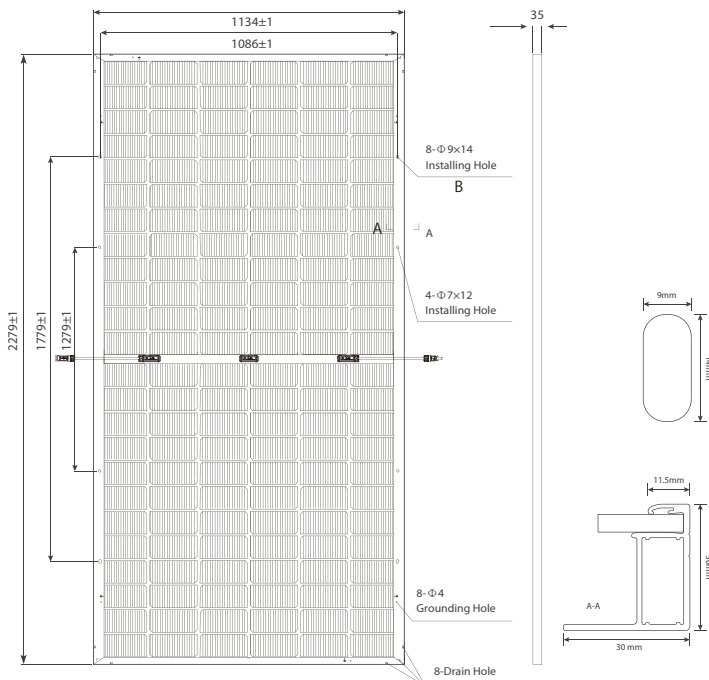
SN(570~600W)-144MTB

Weight
32.5kg

Number of Cells
144pcs(24×6)

Module Size
2278×1134×30mm

Packing
37pcs/pallet,740pcs/40HQ



MECHANICAL SPECIFICATIONS

Solar Cell Type	182×91mm
Glass	Dual glass, 2.0mm coated tempered glass
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)	45±2 C
Temperature Coefficient of ISC	0.045% C
Temperature Coefficient of VOC	-0.230% C
Temperature Coefficient of Pmax	-0.280% C
Operational Temperature	-40 C ~ +85 C
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	25A

STC — Electrical Characteristics

Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power -Pmax(W)	570W	433.9W	575W	437.7W	580W	441.5W	585W	445.3W	590W	449.1W	595W	452.9W	600W	456.7W
Maximum Power Voltage-Vmp(V)	43.00V	40.87V	43.11V	40.97V	43.22V	41.07V	43.33V	41.18V	43.44V	41.28V	43.56V	41.38V	43.68V	41.48V
Maximum Power Current-Imp(A)	13.26A	10.62A	13.34A	10.68A	13.42A	10.75A	13.51A	10.82A	13.59A	10.89A	13.67A	10.94A	13.74A	11.01A
Open Circuit Voltage -Voc(V)	51.19V	48.65V	51.30V	48.75V	51.41V	48.86V	51.52V	48.96V	51.64V	49.07V	51.76V	49.19V	51.88V	49.31V
Short Circuit Current-Isc(A)	14.05A	11.29A	14.14A	11.35A	14.22A	11.42A	14.30A	11.48A	14.38A	11.55A	14.55A	11.65A	14.63A	11.72A
Module Efficiency(STC) -ηm(%)	22.05%		22.25%		22.44%		22.64%		22.83%		23.02%		23.21%	

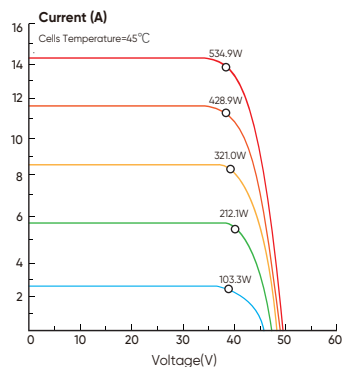
TC:Irradiance:1000W/m², Module Temperature:25°C,Air Mass:1.5

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

Bifacial Output-Rearside Power Gain

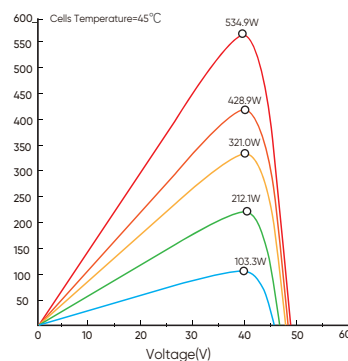
		5%		10%		15%		
		Maximum Power(Pmax)	Module Efficiency STC(%)	Maximum Power(Pmax)	Module Efficiency STC(%)	Maximum Power(Pmax)	Module Efficiency STC(%)	
5%	Maximum Power(Pmax)	598.5W	603.75W	609W	614.25W	619.5W	624.75W	630W
	Module Efficiency STC(%)	23.16%	23.36%	23.56%	23.77%	23.96%	24.18%	24.38%
10%	Maximum Power(Pmax)	627W	632.5W	638W	643.5W	649W	654.5W	660W
	Module Efficiency STC(%)	24.26%	24.47%	24.68%	24.89%	25.11%	25.33%	25.54%
15%	Maximum Power(Pmax)	655.5W	661.5W	667W	673W	678.5W	684W	689.5W
	Module Efficiency STC(%)	25.36%	25.59%	25.81%	26.04%	26.25%	26.47%	26.69%

I-V Curve



Current-Voltage Curve(580W)

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



Power-Voltage Curve(580W)

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