

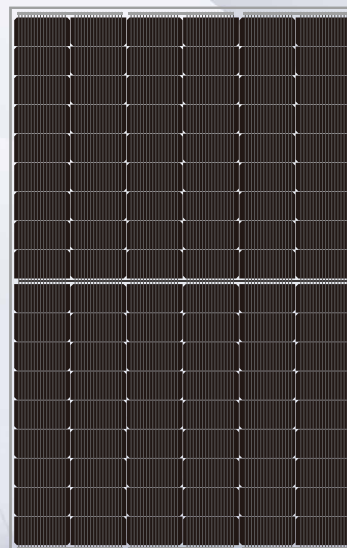
TOPCon

Double Glass Bifacial

500-515W

SN(500~515W)-108MTBR 16BB >

Mono MBB N-type large size half cut module



KEY FEATURES



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 25.2%.



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

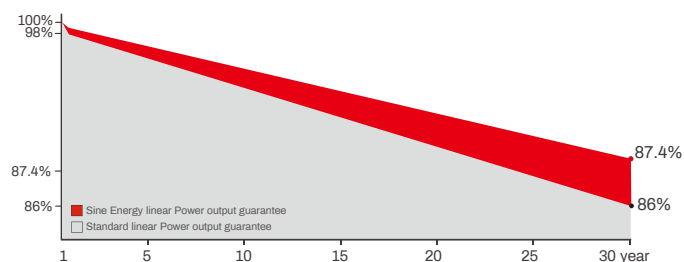
IEC61215 | IEC61730 | IEC 61701 | CE | INMETRO
 ISO 9001
 2015 Quality Management System
 ISO 14001
 2015 Environmental Management System
 ISO45001
 2018 Occupational Health and Safety Management System



INDUSTRY LEADING WARRANTY

12 years Guarantee on product material and workmanship

30 years Linear power output warranty



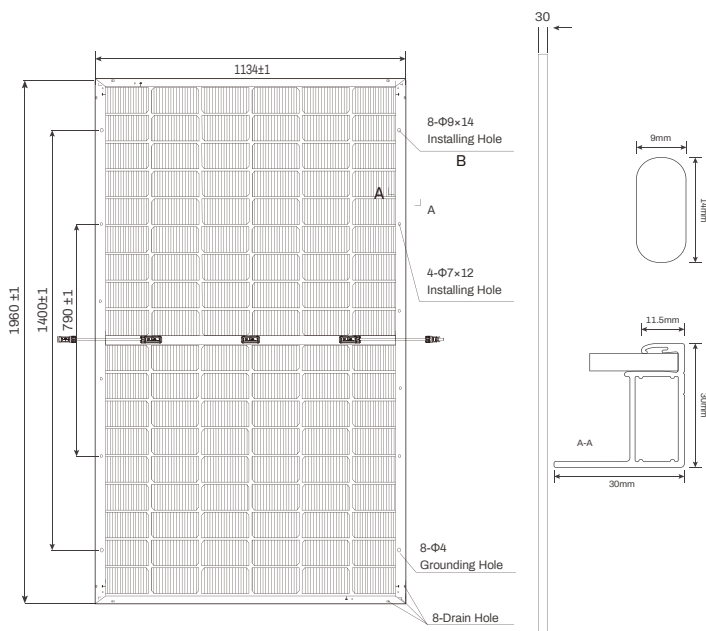
SN(500~515W)-108MTBR

Weight
26.2kg

Number of Cells
108pcs(18×6)

Module Size
1960×1134×30mm

Packing
37pcs/pallet,888pcs/40HQ



MECHANICAL SPECIFICATIONS

Solar Cell Type	210×182mm
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
Fire Rating	Class C
Protection Class	Class II

STC — Electrical Characteristics

Test conditions	STC		NOCT		STC		NOCT		STC		NOCT	
Maximum Power -Pmax(W)	500W	401W	505W	405W	510W	409W	515W	413W	515W	413W		
Maximum Power Voltage-Vmp(V)	34.84	31.67	34.95	31.74	35.08	31.81	35.21	31.88	35.21	31.88		
Maximum Power Current-Imp(A)	14.36	12.67	14.45	12.76	14.54	12.86	14.563	12.95	14.563	12.95		
Open Circuit Voltage -Voc(V)	40.93	37.89	41.05	37.96	41.17	38.03	41.29	38.10	41.29	38.10		
Short Circuit Current-Isc(A)	15.53	13.57	15.62	13.68	15.71	13.79	15.80	13.90	15.80	13.90		
Module Efficiency(STC) -ηm(%)	24.51		24.74		24.99		25.24		25.24			
Power output tolerance(W)	±3%											
STC:AM:1.5, front:1000W/m ² , 25°C. NOCT:AM:1.5, front:800W/m ² , Wind Speed:1m/s, 20°C												

BNPI — Electrical Characteristics

Maximum Power -Pmax(W)	548W	553W	558W	564W
Maximum Power Voltage-Vmp(V)	38.07	38.18	38.30	38.39
Maximum Power Current-Imp(A)	14.37	14.49	14.60	14.70
Open Circuit Voltage -Voc(V)	40.93	41.05	41.17	41.29
Short Circuit Current-Isc(A)	17.00	17.10	17.19	17.29
Module Efficiency(STC) -ηm(%)	26.83	27.08	27.35	25.35
BNPI: AM:1.5, front:1000W/m ² , rear: 135W/m ² , 25°C.				

I-V Curve

