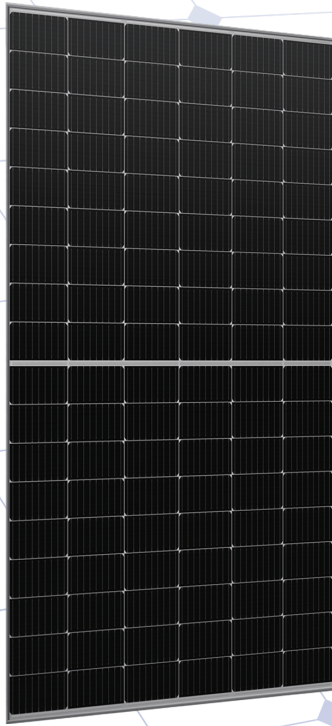




TOPCON Double Glass Bifacial 430~450W

KS(430~450W)-108MBB 18BB ▶
Mono MBB N-type large size half cut module

KEY FEATURES



Kosmo Solar Topcon solar modules adopt the latest 18 bus bar technology decrease the current transverse propagation path by 50% and improve the efficiency of the modules up to 22.53%.



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



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



N type Topcon solar cells make longer life span, lower degradation and better performance in weak light conditions.



Half cut cell and optimized circuit design as well split junction box reduce 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 ensure high PID resistance.



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

CERTIFICATION

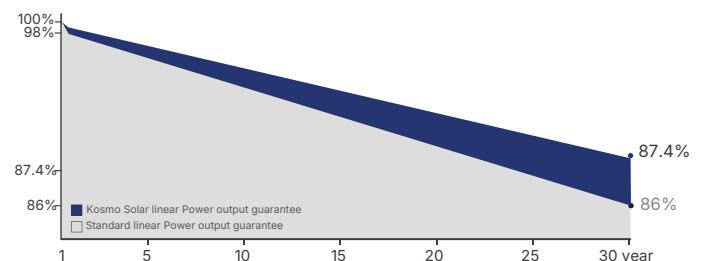
IEC61215 | IEC61730 | IEC 61701 | CE | INMETRO
ISO 9001
2015 Quality Management System
ISO 14001
2015 Environmental Management System
ISO45001
2018 Occupational Health and Safety Management System



INDUSTRY LEADING WARRANTY

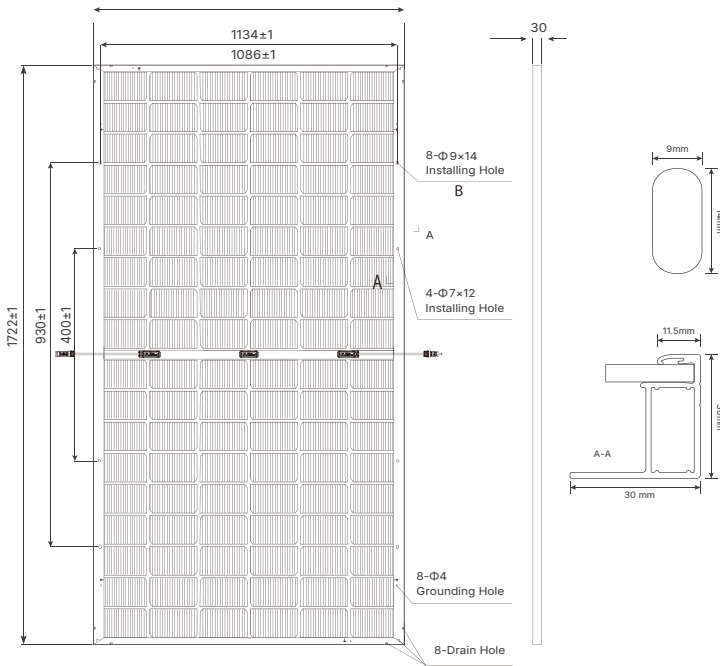
20 years Guarantee on product material and workmanship

30 years Linear power output warranty



KS(430~450W)-108MBB

WEIGHT	NUMBER OF CELLS	MODULE SIZE	PACKING
24kg	108pcs(18×6)	1722×1134×30mm	37pcs/pallet,962pcs/40HQ



MECHANICAL SPECIFICATIONS

Solar Cell Type	182×91 mm
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℃
Temperature Coefficient of ISC	+0.045%/℃
Temperature Coefficient of VOC	-0.230%/℃
Temperature Coefficient of Pmax	-0.280%/℃
Operational Temperature	-40℃~ +85℃
Maximum System Voltage	1500V DC(IEC)
Maximum Series Fuse Rating	25A

STC — Electrical Characteristics

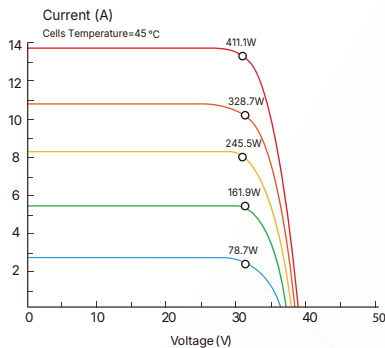
Maximum Power -Pmax(W)	430W 324W	435W 328W	440W 332W	445W 336W	450W 340W
Maximum Power Voltage-Vmp(V)	33.36V 29.65V	33.58V 29.85V	33.79V 30.01V	33.96V 30.17V	34.16V 30.33V
Maximum Power Current-Imp(A)	12.89A 10.90A	12.96A 10.99A	13.03A 11.07A	13.10A 11.13A	13.17A 11.21A
Open Circuit Voltage -Voc(V)	38.29V 36.58V	38.47V 36.76V	38.66V 36.94V	38.86V 37.12V	39.07V 37.30V
Short Circuit Current-Isc(A)	13.69A 11.35A	13.78A 11.43A	13.80A 11.52A	13.96A 11.60A	14.04A 11.68A
Module Efficiency(STC)- ηm(%)	22.02%	22.27%	22.53%	22.78%	23.04%
Power output tolerance(W)	0~+5W				

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

Bifacial Output-Rearside Power Gain

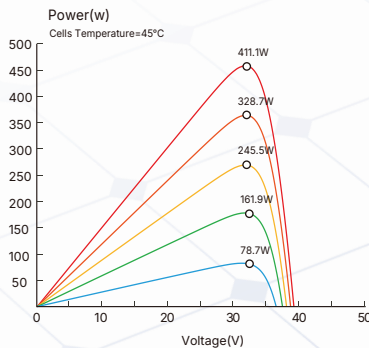
5%	Maximum Power(Pmax)	451.5W	456.75W	462W	467.25W	472.5W
	Module Efficiency STC(%)	23.12%	23.39%	22.58%	23.92%	24.20%
10%	Maximum Power(Pmax)	473W	483.72W	484W	489.5W	495W
	Module Efficiency STC(%)	24.22%	24.77%	24.78%	25.07%	25.35%
15%	Maximum Power(Pmax)	494.5W	505.47W	506W	511.75W	517.5W
	Module Efficiency STC(%)	25.32%	25.88%	25.91%	26.21%	26.50%

I-V Curve



Current-Voltage Curve(435W)

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



Power-Voltage Curve(435W)

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