



Full Black **TOPCON** Double Glass Bifacial **500~520W**

KS(500~520W)-120MBB **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%.



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

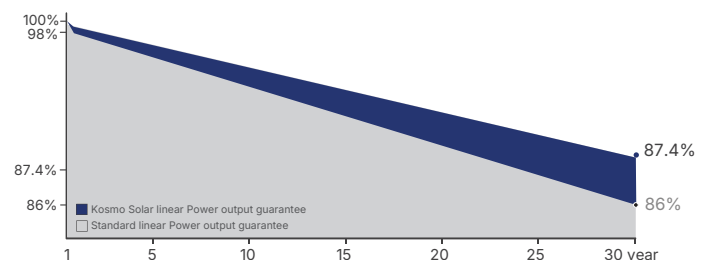
IEC61215 | IEC61730 | IEC 61701 | CE | INMETRO
ISO 9001
2015 Quality Management System
ISO 14001
2015 Environmental Management System
ISO45001
2018 Occupational Health and Safety Management System



INDUSTRY LEADING WARRANTY

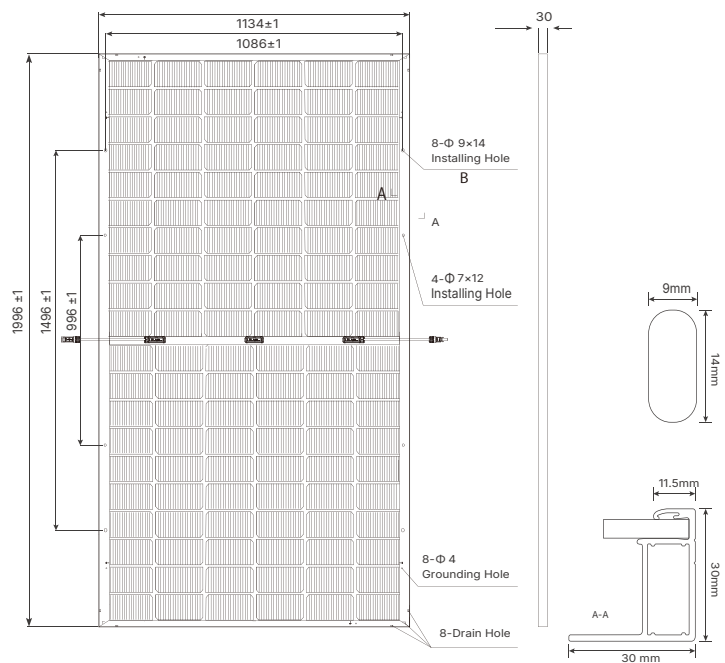
20 years Guarantee on product material and workmanship

30 years Linear power output warranty



KS(500~520W)-120MBB

WEIGHT	NUMBER OF CELLS	MODULE SIZE	PACKING
27 kg	120pcs(20×6)	1996×1134×30mm	37pcs/pallet,888pcs/40HQ



MECHANICAL SPECIFICATIONS

Solar Cell Type	182×95.8mm
Glass	Dual glass, 2.0mm coated tempered glass
Frame	Black 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
Maximum Power -Pmax(W)	500W	353W	505W	357W	510W	361W	515W	365W	520W	369W
Maximum Power Voltage-Vmp(V)	37.14V	32.96V	37.38V	33.12V	37.62V	33.29V	37.85V	33.46V	38.10V	33.63V
Maximum Power Current-Imp(A)	13.47A	10.72A	13.52A	10.78A	13.56A	10.84A	13.61A	10.90A	13.65A	10.97A
Open Circuit Voltage -Voc(V)	43.82V	42.27V	44.53V	40.43V	44.79V	40.59V	45.24V	40.75V	45.37V	40.91V
Short Circuit Current-Isc(A)	14.26A	11.41A	14.31A	11.48A	14.36A	11.54A	14.40A	11.60A	14.45A	11.66A
Module Efficiency STC- ηm(%)	22.09%		22.31%		22.53%		22.75%		22.97%	

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%	Maximum Power(Pmax)	525W	530.25W	535.5W	540.75W	546W
	Module Efficiency STC(%)	23.19%	23.42%	23.65%	23.89%	24.12%
10%	Maximum Power(Pmax)	550W	555.5W	561W	566.5W	572W
	Module Efficiency STC(%)	24.29%	24.54%	24.78%	25.02%	25.27%
15%	Maximum Power(Pmax)	575W	581W	586.5W	592.25W	598W
	Module Efficiency STC(%)	25.40%	25.66%	25.91%	26.16%	26.41%

I-V Curve

