



Anglo Solar | A British solar module brand owned by UKSOL Ltd.

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Model: AS-S120-M10N-R1-BG

POWER OUTPUT

495-515W

**TOPCon Bifacial Solar Module,
182mm Half Cell Series**

16BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss Ga doped wafer, attenuation < 1% (1st year) / ≤ 0.40% (Linear)

Significantly lower the risk of hot spot

Special circuit design with much lower hot spot temperature

Lower LCOE

2% more power generation, lower LCOE

Excellent Anti-PID performance

Carefully inspected before and after lamination to guarantee fault-free modules

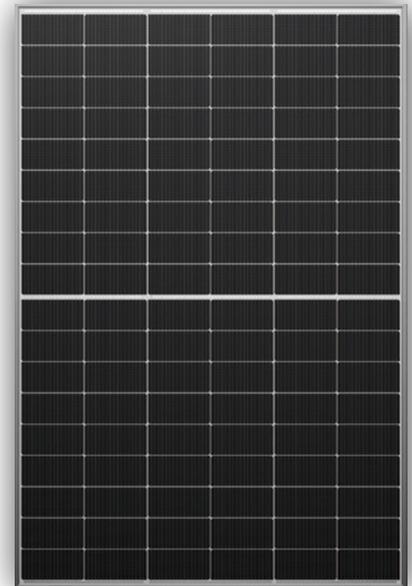
IP68 Junction Box

High Waterproof Level

- Max Module Efficiency: 22.8%
- No. of Cells: 108 Cells
- Weight: 28.5kgs
- Dimensions: 1960 x 1134 x 30 mm
- N-Type TOPCon Monocrystalline

1.00% First Year Power Degradation

0.40% Annual Degradation



30 YEAR WARRANTY

30-YEAR PERFORMANCE WARRANTY



15-YEAR MATERIALS WARRANTY

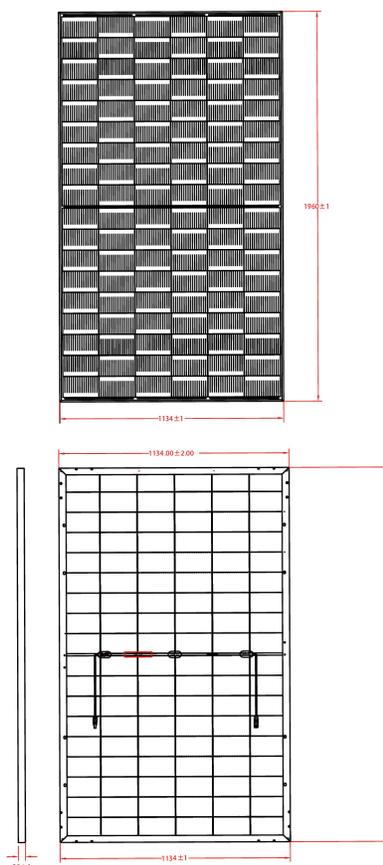
*Specifications are subject to change without prior notification.



Model: AS-S108-M10N-R1-BG

495-515W

ENGINEERING DRAWING



ELECTRICAL CHARACTERISTICS (STC)

Maximum Power (Pmax/W)*	495	500	505	510	515
Operating Voltage (Vmp/V)	36.7	36.9	37.1	37.3	37.5
Operating Current (Imp/A)	13.49	13.55	13.61	13.67	13.73
Open-Circuit Voltage (Voc/V)	44.0	44.2	44.4	44.6	44.8
Short-Circuit Current (Isc/A)	14.06	14.14	14.22	14.29	14.37
Module Efficiency ηm (%)	21.9	22.1	22.3	22.5	22.8
Power Tolerance-PMAX (W)	0/+5W				
STC: Irradiance 1000W/m ² , module temperature 25°C, AM=1.5; *Measuring tolerance: ±3%					

NMOT

Maximum Power (Pmax/W)	373	377	381	385	389
Operating Voltage (Vmp/V)	34.1	34.3	34.5	34.7	34.9
Operating Current (Imp/A)	10.94	10.99	11.04	11.10	11.15
Open-Circuit Voltage (Voc/V)	41.9	42.1	42.3	42.5	42.7
Short-Circuit Current (Isc/A)	11.31	11.38	11.44	11.51	11.58
NMOT: Irradiance 800W/m ² , ambient temperature 20°C, AM=1.5, wind speed 1m/s					

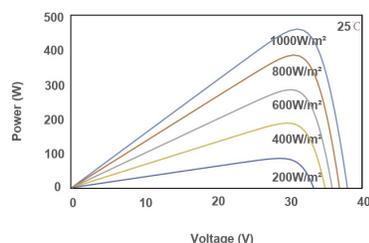
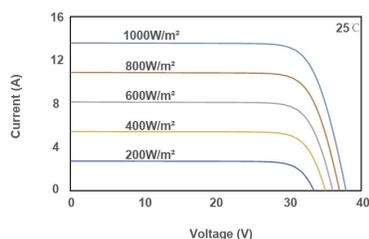
MECHANICAL CHARACTERISTICS

Cell Type	N-Type TOPCon Monocrystalline Silicon
No. of Cells	120 (6*20)
Module Dimensions	1996 x 1134 x 30mm
Weight	24.0kg
Encapsulant Material	POE/EVA
Cable length	350mm or customised length
Cable Cross Section Size	TUV: 4mm ²
No. of Bypass Diodes	3
Front Glass	3.2mm AR coating tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP 68 Rated
Packing configuration	36 pcs/carton, 792 pcs/40' container

I-V CURVES

I-V CURVE

Current-Voltage & Power-Voltage Curve (495)



OPERATING CONDITIONS

Maximum System Voltage	1500/DC(IEC)
Operating Temperature	-40c to +85c
Maximum Series Fuse	25A
Static Loading	Snow loading: 5400Pa / Wind loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	MC4 Compatible

TEMPERATURE CHARACTERISTICS

Nominal Module Operating Temperature	42±2°C
Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.046%/°C