



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

Anglo Solar,
Globe Park, Third Avenue
Jubilee, Marlow, SL7 1EY

Phone: 01628 272988
Email: info@anglosolar.com
www.anglosolar.com

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
EUROPEAN
PERFORMANCE
WARRANTY



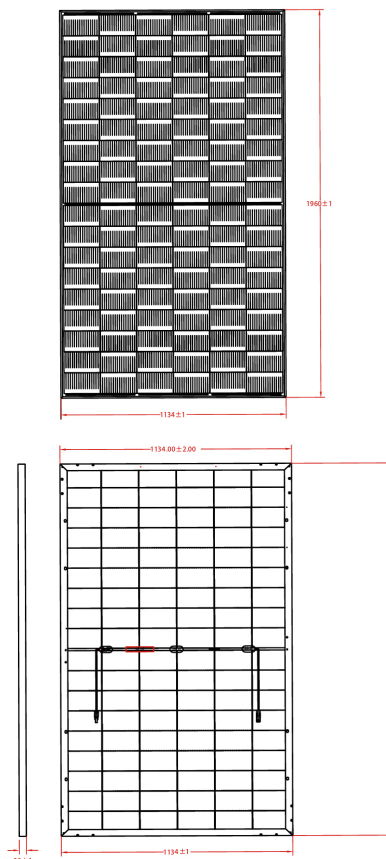
12 YEAR
PRODUCT
WARRANTY

* Specifications are subject to change without further notification

Model: AS-S108-M10N-R1-BG

495-515W

ENGINEERING DRAWING



ELECTRICAL CHARACTERISTICS (STC)

Peak Power Watts-PMax (Wp)*	495	500	505	510	515
Maximum Power Voltage (Vmp/V)	36.7	36.9	37.1	37.3	37.5
Maximum Power 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/m², module temperature 25°C, AM=1.5; *Measuring tolerance: ±3%

BNPI

Peak Power-PMax (Wp)*	540	545	550	555	560
Maximum Power Voltage (VMP/V)	36.7	36.9	37.1	37.3	37.5
Maximum Power Current (Imp/A)	14.71	14.77	14.82	14.88	14.93
Open-Circuit Voltage (Voc/V)	44.0	44.2	44.4	44.6	44.8
Short-Circuit Current (Isc/A)	15.67	15.75	15.82	15.89	15.96

BNPI: Irradiance 1000W/m², module temperature 25°C

NMOT

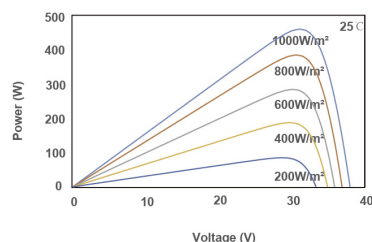
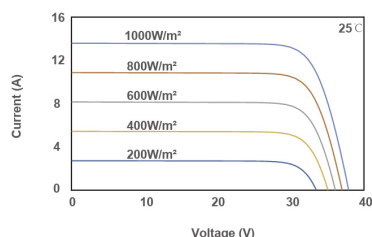
Maximum Power-PMax (Wp)*	373	377	381	385	389
Maximum Power Voltage (VMP/V)	34.1	34.3	34.5	34.7	34.9
Maximum Power Current (Imp/A)	10.94	10.99	11.04	11.10	11.15
Open-Circuit Voltage (Voc/V)	41.9	42.1	42.3	42.5	42.7
Short-Circuit Current (Isc/A)	11.31	11.38	11.44	11.51	11.58

NMOT: Irradiance 800W/m², ambient temperature 20°C, AM=1.5, wind speed 1 m/s

I-V CURVES

I-V CURVE

Current-Voltage & Power-Voltage Curve (495)



MECHANICAL CHARACTERISTICS

Solar Cells	N-Type TOPCon Monocrystalline Silicon
Cell Orientation	120 pcs
Module Dimensions	1996 x 1134 x 30mm
Weight	28.5kg
Encapsulant Material	POE/EVA
Front Glass	2.0mm, High Transmission, AR coated Heat Strengthened Glass
Back Glass	2.0mm, Heat strengthened glass (white grid glass)
Frame	30mm Anodized aluminium alloy
Output Cables	Photovoltaic Technology Cable 4.0mm2 Cable length 350mm or customised length
Junction Box	IP 68 Rated
Packing configuration	36 pcs/box, 792 pcs/40' container

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