

Superior Solar PV Modules - Dependable British Brand - 30 Year British Warranty



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

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Model: AS-S120-M10N-XXX-BG

POWER OUTPUT

465-485W

Bifacial Solar Module, 182mm Half Cell Series

Half Cut 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

2 times of industry standard Anti-PID test by TUV-SUD

IP68 Junction Box

High Waterproof Level

- Max Module Efficiency: 22.4%
- No. of Cells: 120 cells (6 × 20)
- Weight: 23.5kgs
- Dimensions: 1909×1134×30mm
- Monocrystalline 182×91mm

1.00% First Year Power Degradation

0.40% Annual Degradation



**30-YEAR
PERFORMANCE
WARRANTY**



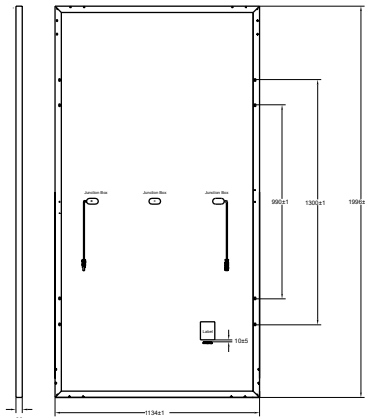
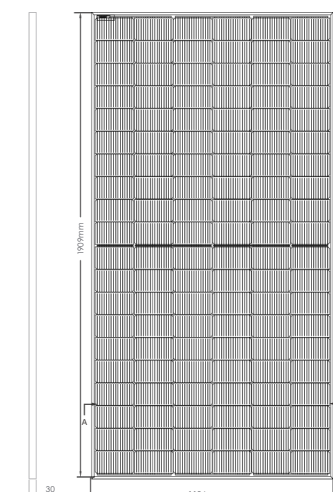
**15-YEAR
MATERIALS
WARRANTY**



*Specifications are subject to change without prior notification.

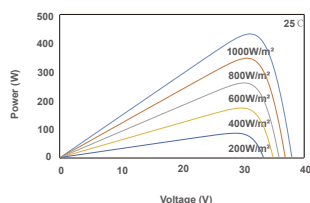
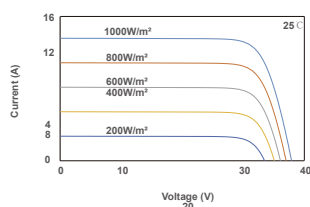
Model: AS-S120/M10N-XXX **465-485W**

ENGINEERING DRAWING



I-V CURVE

Current-Voltage & Power-Voltage Curve (485)



ELECTRICAL CHARACTERISTICS (STC)

STC	465	470	475	480	485
Maximum Power at STC (Pmax)	465	470	475	480	485
Optimum Operating Voltage (Vmp)	35.5	35.7	35.9	36.1	36.3
Optimum Operating Current (Imp)	13.10	13.17	13.24	13.30	13.37
Open-Circuit Voltage (Voc/V)	42.8	43.0	43.2	43.4	43.6
Short-Circuit Current (Isc/A)	13.83	13.91	13.99	14.08	14.16
Module Efficiency η_m (%)	21.5	21.7	21.9	22.2	22.4
Power Tolerance (W)	0~+5				

STC: Irradiance 1000W/m², module temperature 25°C, AM=1.5; *Measuring tolerance: $\pm 3\%$

NMOT

Maximum Power at NMOT (Pmax)	357	361	365	369	373
Optimum Operating Voltage (Vmp)	33.4	33.6	33.8	34.0	34.2
Optimum Operating Current (Imp)	10.69	10.75	10.80	10.86	10.91
Open-Circuit Voltage (Voc/V)	40.5	40.7	40.9	41.1	41.3
Short Circuit Current (Isc)	11.44 11.51				

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

MECHANICAL CHARACTERISTICS

Solar Cells	N-Type TOPCon Monocrystalline Silicon
No. of Cells	120 Cells (6 x 20)
Module Dimensions	1909 x 1134 x 30mm
Weight	23.5kg
Cable Length	350mm or customised length
Cable Cross Section Size	TUV: 4mm ²
Front Glass	3.2mm AR coating tempered glass
No. of Bypass Diodes	3/6
Packing Configuration	36pcs/carton, 854 pcs/40HQ
Frame	Anodized Aluminium Alloy
Junction Box	IP68

*Please refer to regional datasheet for specied connector.

OPERATING CONDITIONS

Maximum System Voltage	1500V/DC (IEC)
Operating Temperature	-40c to 85c
Maximum Series Fuse	25A
Static Loading	Snow Loading: 5400Pa / Wind Loading: 2400Pa
Conductivity at Ground	$\leq 0.1\Omega$
Safety Class	II
Resistance	$\geq 100M\Omega$
Connector	MC4 compatible

TEMPERATURE COEFFICIENT

Nominal Module Operating Temperature (NMOT)	42 $\pm$ 2°C
Temperature Coefficient of Pmax	-0.29 %/°C
Temperature Coefficient of Voc	-0.25 %/°C
Temperature Coefficient of Isc	0.046 %/°C