



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

Model: AS-S144/M10N-xxx-BG

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POWER OUTPUT

555-585W

182 mm Half Cell Series



<p>High Efficiency</p> <p>Module Efficiency leading in industry, up to 20.4%</p>	<p>High Reliability</p> <p>Passed 3* IEC Standard Test</p>
<p>Low Hot Spot Risk</p> <p>1/2 current, reducing the hot spot temperature</p>	<p>Excellent loading capability</p> <p>2400Pa wind loads, 5400PA snow loads, extra support 8000Pa</p>
<p>Low NMOT</p> <p>As low as 43°C, improving the power generation efficiency</p>	<p>Half Cell MBB Technology</p> <p>Series then parallel cell connection design, more reliable soldering technology</p>

- Max Module Efficiency: 22.6%
- No. of Cells: 144 cells(6 × 24)
- Weight: 31.8 kgs
- Dimensions: 2279× 1134× 30mm
- Monocrystalline 182×91mm

30 YEAR WARRANTY



30 YEAR
EUROPEAN
PERFORMANCE
WARRANTY



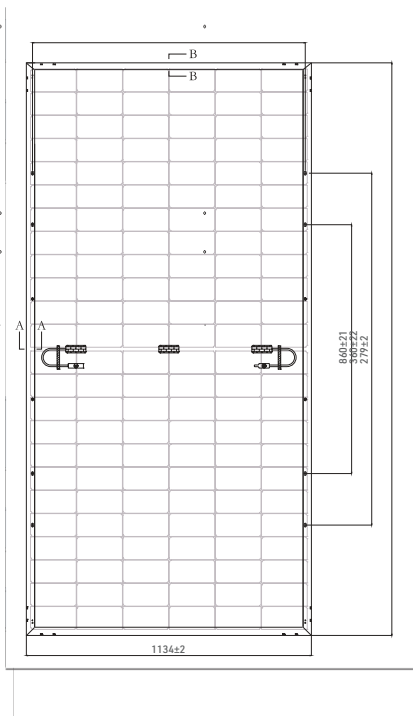
12 YEAR
PRODUCT
WARRANTY

* Specifications are subject to change without further notification

Model: AS-S144/M10N-xxx-BG

555W-585W

ENGINEERING DRAWING



ELECTRICAL CHARACTERISTICS

Module	AS-S144/M10N-xxx-BG						
Maximum Power at STC (Pmax)	555W	560W	565W	570W	575W	580W	585W
Open-Circuit Voltage (Voc)	51.2V	51.4V	51.6V	51.8V	52.0V	52.2V	52.4V
Short-Circuit Current (Isc)	13.81A	13.87A	13.94A	14.01A	14.08A	14.15A	14.22A
Optimum Operating Voltage (Vmp)	42.5V	42.7V	42.9V	43.1V	43.3V	43.5V	43.7V
Optimum Operating Current (Imp)	13.06A	13.18A	13.23A	13.06A	13.28A	13.34A	13.39A
Module Efficiency	21.5%	21.7%	21.9%	22.1%	22.2%	22.4%	22.6%
Power Tolerance	-40 to +85°C						
Maximum System Voltage	1500Vdc (IEC /UL)						
Maximum Series Fuse Rating	30A						
Operating Temperature	-40°C to +85°C						

*STC: Irradiance 1000W/m², module temperature 25, AM=1.5 Optional black frame or white frame module according to customer requirements

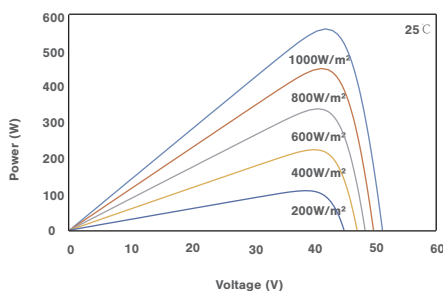
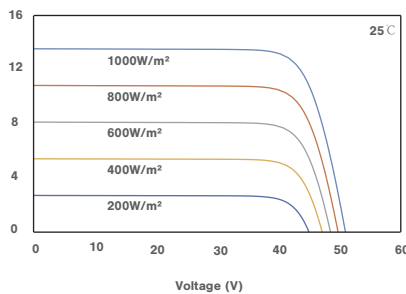
NOCT

Module	AS-S144/M10N-xxx-BG						
Maximum Power	422W	426 W	430 W	434W	438 W	442 W	446 W
Open Circuit Voltage (Voc)	48.5 V	48.7V	48.9V	49.1V	49.3V	49.5V	49.7V
Short Circuit Current (Isc)	11.09 A	11.15A	11.21A	11.26A	11.32A	11.38A	11.43A
Maximum Power Voltage (Vmp)	40V	40.2V	40.4V	40.6V	40.8V	41.0V	41.2V
Maximum Circuit Current (Imp)	10.55A	10.60 A	10.65A	10.69A	10.74A	10.78A	10.78A
NOCT	42±2°C						

*NOCT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1 m/s

I - V CURVES

Current-Voltage & Power-Voltage Curve (570)



MECHANICAL CHARACTERISTICS

Solar Cells	N-Type TOPCon Monocrystalline 182*91mm
No. of Cells	144 cells(6 × 24)
Dimensions	2279× 1134× 30mm
Weight	31.8kgs
Front Glass	2.0 mm tempered glass
Frame	30mm Anodized Aluminium Alloy(Silver/Black Frame optional)
Junction Box	IP 68 rated
Cable	4.0mm ² 350mm length can be customized
Connectors	MC4Compatible
Packaging Configuration	36pcs / box, 720pcs /40'HQContainer

TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	γ (Pm)	-0.30 %/°C
Temperature Coefficient of Voc	β (Voc)	-0.25 %/°C
Temperature Coefficient of Isc	α (Isc)	0.046 %/°C