

Model: AS-S108/M10N-xxx-BG



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POWER OUTPUT

420-435W

## 182 mm N Type TOPCon Cell Series. Bifacial.

**High Efficiency:**  
Module efficiency  
N Type TOPCon  
up to 22.3%

**Low Hot-Spot Risk:** 1/2 current,  
reducing the hot-spot  
temperature

**Excellent loading capability:** 2400Pa  
wind loads, 5400Pa  
snow loads, extra  
support 8000Pa

**Low NMOT:** As low  
as 43°C, improving  
the power  
generation efficiency

**Half Cell, MBB Technology:**  
Series-then-parallel  
cell connection  
design, more  
reliable soldering  
technology



- All black. Bifacial
- Max Module Efficiency: 22.0%
- No. of Cells: 108 cells (6 × 18)
- Weight: 22 Kgs
- Dimensions: 1724×1134×35mm
- Monocrystalline 182×91mm
- 12 Year British Warranty  
30 Year British Performance Warranty



**30 YEAR**  
EUROPEAN  
PERFORMANCE  
WARRANTY



**12 YEAR**  
PRODUCT  
WARRANTY

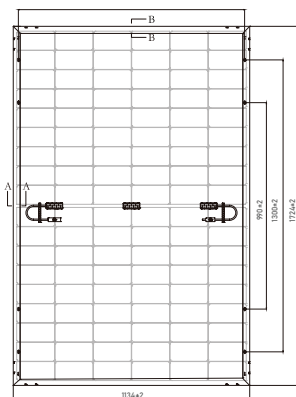
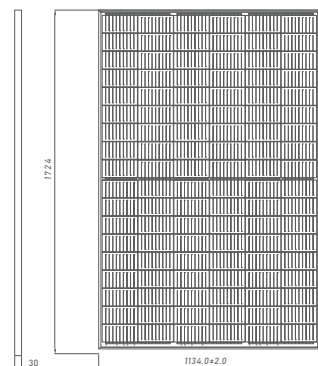
\* Specifications are subject to change without further notification

# Tier One Factory Produced

Model: AS-S108/M10N-xxx-BG

425W-435W

## ENGINEERING DRAWING



## ELECTRICAL CHARACTERISTICS

Module	AS-S108/M10N-xxx-BG		
Maximum Power at STC (Pmax)	425W	430W	435W
Open-Circuit Voltage (Voc)	38.9V	39.1V	39.3V
Short-Circuit Current (Isc)	13.91 A	14.01A	14.10A
Optimum Operating Voltage (Vmp)	32.3V	32.5V	32.7 V
Optimum Operating Current (Imp)	13.16A	13.24A	13.31A
Module Efficiency	21.7%	22.0%	22.3%
Power Tolerance	0 ~ +5W		
Maximum System Voltage	1500Vdc (IEC /UL)		
Maximum Series Fuse Rating	25A		
Operating Temperature	-42°C +2 oC		

\*STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25, AM=1.5  
Optional black frame or white frame module according to customer requirements

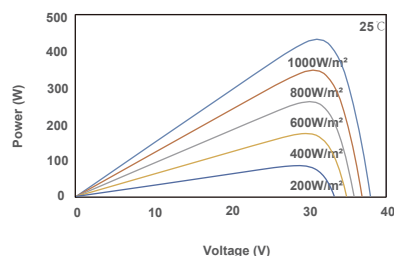
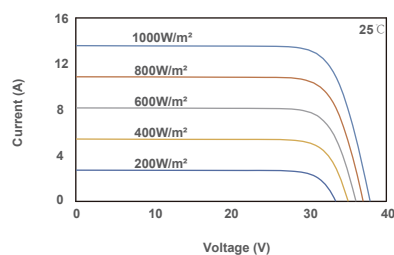
## NMOT

Module	AS-S108/M10N-xxx-BG		
Maximum Power (Wp)*	325 W	329 W	333 W
Open Circuit Voltage (Voc)	36.8 V	37.0 V	37.2V
Short Circuit Current (Isc)	11.25 A	11.33A	11.41A
Maximum Power Voltage (Vmp)	30.4 V	30.6 V	30.8 V
Maximum Circuit Current (Imp)	10.70 A	10.76 A	10.82A
NOCT	42±2°C		

\*NOCT: Irradiance 800W/m<sup>2</sup>, ambient temperature 20°C, wind speed 1 m/s

## I - V CURVES

Current-Voltage & Power-Voltage Curve (470)



## MECHANICAL CHARACTERISTICS

Solar Cells	Mono crystalline 182*91mm N-Type TOPCon
No.of Cells	108 cells (6 × 18)
Dimensions	1724× 1134× 35mm
Weight	25.1 kgs
Front Glass	2.0 mm tempered glass
Frame	30mm Anodized Aluminium Alloy(Silver/Black Frame optional)
Junction Box	IP68 rated
Cable	Photovoltaic Technology Cable 4.0mm <sup>2</sup> Cable length 350 mm or customized length
Connectors	MC4 Compatible
Packaging Configuration	36pcs / box, 806pcs / 40'HQ Container

## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	$\gamma$ (Pm)	-0.30%/K
Temperature Coefficient of Voc	$\beta$ (Voc)	-0.25%/K
Temperature Coefficient of Isc	$\alpha$ (Isc)	0.045%/K