



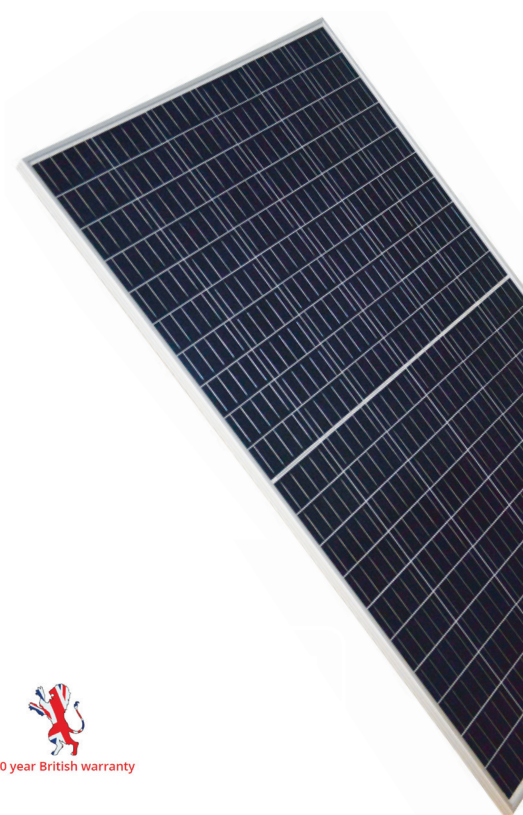
Model: AS-S120/M10N-xxx-BG

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POWER OUTPUT

**470-480W**

**182 mm Half Cell Series**



High Efficiency :  
Module efficiency  
leading in industry,  
up to 20.4%

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

- Max Module Efficiency:  
22.2%
- No. of Cells:  
120 cells (6 × 20)
- Weight:  
27.5 kgs
- Dimensions:  
1909×1134×35mm
- Monocrystalline  
182×91mm



**30 YEAR**  
EUROPEAN  
PERFORMANCE  
WARRANTY



**12 YEAR**  
PRODUCT  
WARRANTY

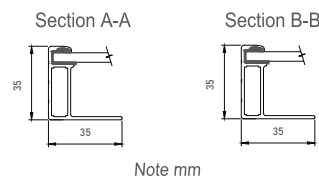
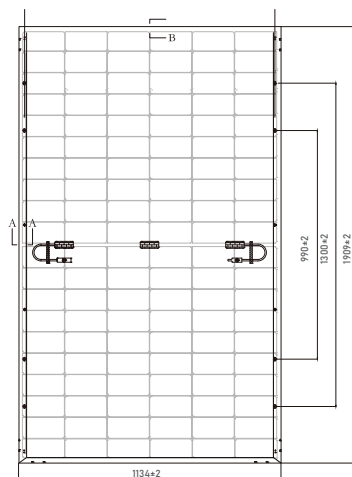
\* Specifications are subject to change without further notification

# Tier One Factory Produced

Model: AS-S120/M10N-xxx-BG

650W-670W

## ENGINEERING DRAWING



## ELECTRICAL CHARACTERISTICS

Module	AS-S120/M10N-xxx-BG		
Maximum Power at STC (Pmax)	470W	475W	480W
Open-Circuit Voltage (Voc)	43.0V	43.2V	43.4V
Short-Circuit Current (Isc)	13.91A	13.99A	14.08A
Optimum Operating Voltage (Vmp)	35.7V	35.9V	36.1V
Optimum Operating Current (Imp)	13.17A	13.24A	13.30A
Module Efficiency	21.7%	21.9%	22.0%
Power Tolerance	0 ~ +5W		
Maximum System Voltage	1500Vdc (IEC /UL)		
Maximum Series Fuse Rating	30A		
Operating Temperature	-40°C to +85°C		

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

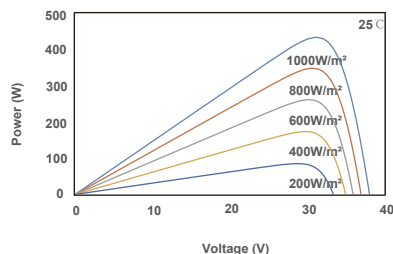
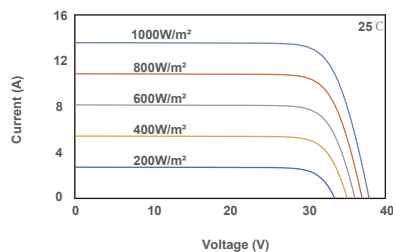
## NOCT

Module	AS-S120/M10N-xxx-BG		
Maximum Power	359W	363W	367W
Open Circuit Voltage (Voc)	40.8V	41.0V	41.2V
Short Circuit Current (Isc)	11.20A	11.27A	11.34A
Maximum Power Voltage (Vmp)	33.7V	33.9V	34.1V
Maximum Circuit Current (Imp)	10.66A	10.71A	10.77A
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
No. of Cells	120 cells(6 × 20)
Dimensions	1909×1134×35mm
Weight	27.5 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	31pcs / box, 744pcs / 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