

Model: AS-S144/M10N-xxx-BG



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POWER OUTPUT

555-585W

182 mm Half Cell Series



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

High Reliability:
Passed
3*IECstandard
test

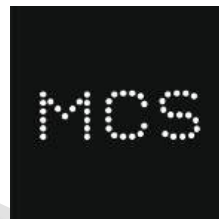
Low Hot-Spot Risk: 1/2
current, reducing the
hot-spot temperature

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



30 YEAR
EUROPEAN
PERFORMANCE
WARRANTY



12 YEAR
PRODUCT
WARRANTY

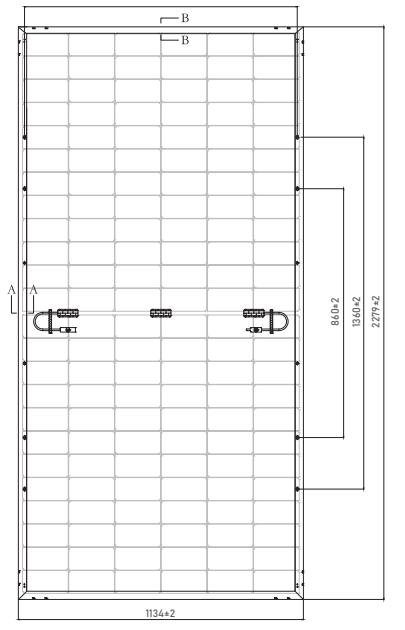
* Specifications are subject to change without further notification

Tier One Factory Produced

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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

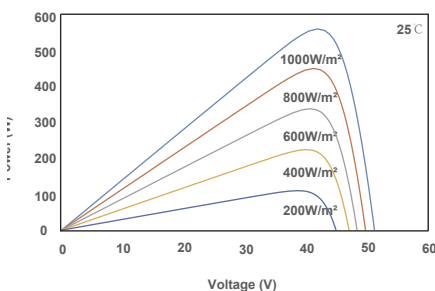
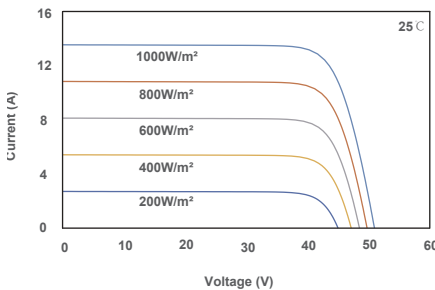
NOCT

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	MC4 Compatible
Packaging Configuration	36pcs / box, 720pcs /40'HQ Container

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