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Model: AS-S144/M10H-xxx-BG

POWER OUTPUT

530-550W

182mm Bifacial Serious

144 Cell Half Bifacial Module

High module conversion efficiency: Module efficiency up to 21.3% achieved through advanced cell technology and manufacturing process

Suntech current sorting process: Up to 2% power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output

Lower operating temperature: Lower operating temperature and temperature coefficient increases the power output

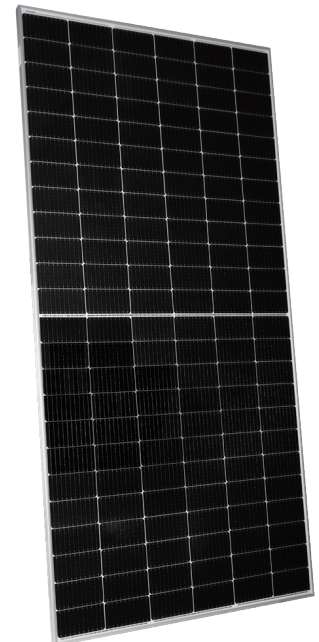
Excellent weak light performance: More power output in weak light condition, such as cloudy, morning and sunset

Extended wind and snow load tests: Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)*

Withstanding harsh environment: Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

IP68 junction box:
High waterproof level

- Max Module Efficiency: 21.3%
- No. of Cells: 144 (6 × 24)
- Weight: 32.8 kgs
- Dimensions: 2279 × 1134 × 30 mm
- Monocrystalline 182 mm



30 year British warranty



30 YEAR
EUROPEAN
PERFORMANCE
WARRANTY



12 YEAR
PRODUCT
WARRANTY

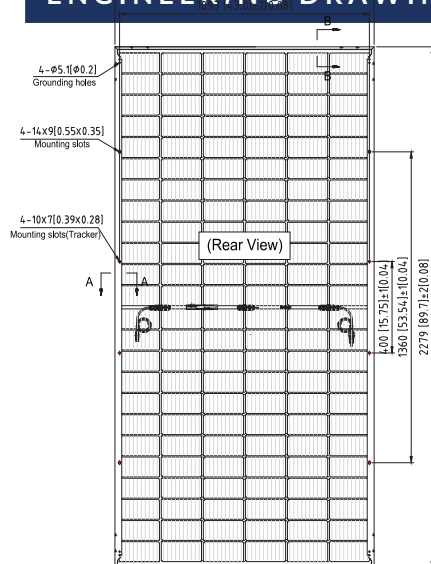
* Specifications are subject to change without further notification

Tier One Factory Produced

Model: AS-S144/M10H-xxx-BG

530W-550W

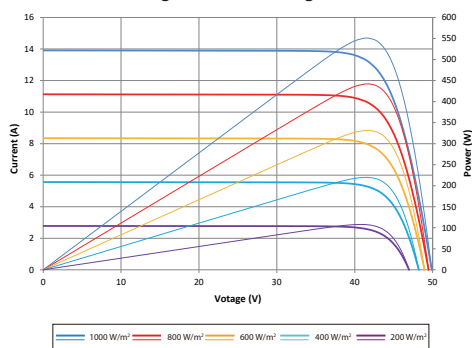
ENGINEERING DRAWING



Note: mm [inch]

I - V CURVES

Current-Voltage & Power-Voltage Curve (550S)



ELECTRICAL CHARACTERISTICS

Module	AS-S144/M10H-xxx-BG				
Maximum Power at STC (Pmax)	530W	535W	540W	545W	550W
Open-Circuit Voltage (Voc)	49.24V	49.39V	49.54V	49.69V	49.88V
Short-Circuit Current (Isc)	13.76A	13.83A	13.89A	13.96A	14.01A
Optimum Operating Voltage (Vmp)	41.39V	41.57V	41.75V	41.87V	42.05V
Optimum Operating Current (Imp)	12.81A	12.87A	12.94A	13.02A	13.08A
Module Efficiency	20.5%	20.7%	20.9%	21.1%	21.3%
Power Tolerance	0 ~ +3%				
Operating Temperature	42 ± 2 °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/M10H-xxx-BG				
Maximum Power	400.6W	404.3W	408.0W	411.5W	415W
Open Circuit Voltage (Voc)	46.3V	46.4V	46.5V	46.7V	46.9V
Short Circuit Current (Isc)	11.02A	11.08A	11.13A	11.18A	11.22A
Maximum Power Voltage (Vmp)	38.2V	38.4V	38.6V	38.7V	38.9V
Maximum Circuit Current (Imp)	10.47A	10.53A	10.58A	10.63A	10.67A
NOCT	42 ± 2 °C				

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

Electrical Characteristics with Different Rearside Power Gain (Reference to 540 W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	567	621	675
Optimum Operating Voltage (Vmp)	41.8	41.8	41.9
Optimum Operating Current (Imp)	13.59	14.88	16.18
Open Circuit Voltage (Voc)	49.5	49.5	49.6
Short Circuit Current (Isc)	14.48	15.86	17.24
Module Efficiency	21.9	24.0	26.1

MECHANICAL CHARACTERISTICS

Solar Cells	Monocrystalline silicon 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2279 × 1134 × 30 mm
Weight	32.8 kgs
Front Glass	2.0+2.0 mm (0.079+0.079inches) semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 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)	-0.36%/K
Temperature Coefficient of Voc	β (Voc)	-0.304%/K
Temperature Coefficient of Isc	α (Isc)	0.050%/K