



Model: AS-S120/M12H-xxx

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POWER OUTPUT

590-605W

210mm cells Half Cut



- Max Module Efficiency: 21.4%
- No. of Cells: 120 cells
- Weight: 30.9 kg
- Dimensions: 2172x1303x35mm



30 year British warranty



High customer value :
Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) cost, shorter payback time. Designed for compatibility with existing mainstream system components. Higher return on Investment Lower guaranteed first year and annual degradation

High power up to 605W :
Large area cells based on 210mm silicon wafers and half-cut cell technology. Up to 21.4% module efficiency with high density interconnect technology. Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

High reliability : Minimized micro-cracks with innovative non-destructive cutting technology Ensured PID resistance through cell process and module material control Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas. Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load

High energy yield :
Excellent IAM (Incident Angle Modifier) and low irradiation performance, validated by 3rd party certifications. The unique design provides optimized energy production under inter-row shading conditions

30 YEAR
EUROPEAN
PERFORMANCE
WARRANTY



12 YEAR
PRODUCT
WARRANTY

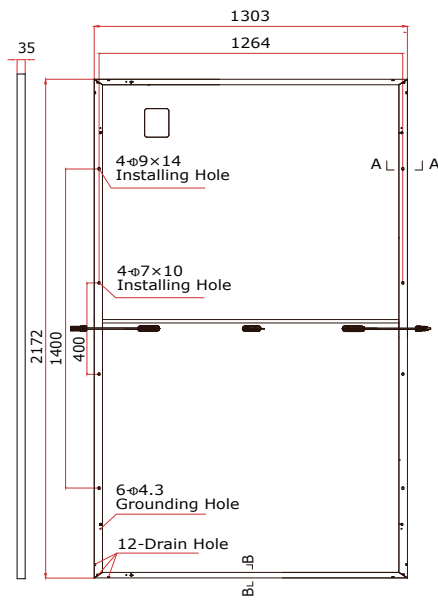
* Specifications are subject to change without further notification

Tier One Factory Produced

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590W-605W

ENGINEERING DRAWING



ELECTRICAL CHARACTERISTICS

Module	AS-S120/M12H-xxx			
Maximum Power at STC (Pmax)	590W	595W	600W	605W
Open-Circuit Voltage (Voc)	41.1V	41.3V	41.5V	41.7V
Short-Circuit Current (Isc)	18.42A	18.47A	18.52A	18.57A
Optimum Operating Voltage (Vmp)	34.0V	34.2V	34.4V	34.6V
Optimum Operating Current (Imp)	17.35A	17.40A	17.44A	17.49A
Module Efficiency	20.8%	21.0%	21.2%	21.4%
Power Tolerance	0 ~ +5W			
Maximum System Voltage	1500Vdc (IEC /UL)			
Maximum Series Fuse Rating	30A			
Operating Temperature	-40°C to +85°C			

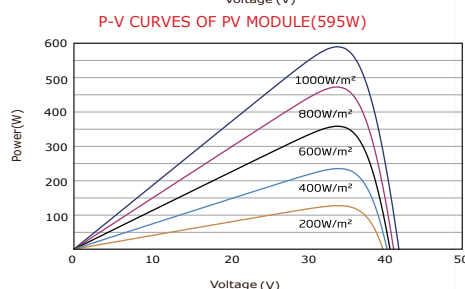
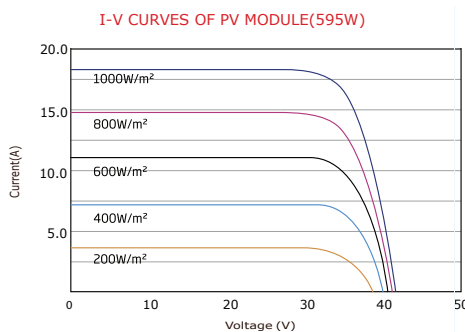
*STC: Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NOCT

Module	AS-S132/M12H				
Maximum Power	447W	451W	454W	458W	508W
Open Circuit Voltage (Voc)	38.7V	38.9V	39.1V	39.3V	43.4V
Short Circuit Current (Isc)	14.85A	14.88A	14.92A	14.96A	15.01A
Maximum Power Voltage (Vmp)	31.7V	31.9V	32.0V	32.2V	35.6V
Maximum Circuit Current (Imp)	14.09A	14.13A	14.17A	14.22A	14.26A
NOCT	43°C (± 2°C)				

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

I - V CURVES



MECHANICAL CHARACTERISTICS

Solar Cells	Mono crystalline
No. of Cells	120 cells
Dimensions	2172x1303x35mm
Weight	30.9 kg
Front Glass	3.2 mm, High Transmission, AR Coated Heat Strengthened Glass
Frame	35 mm Anodized Aluminium Alloy
Junction Box	IP 68 rated
Cable	4.0mm ² 350mm length can be customized
Connectors	MC4 Compatible
Packaging Configuration	31pcs / box, 558pcs / 40'HQ Container

TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	γ (Pm)	-0.36%/K
Temperature Coefficient of Voc	β (Voc)	-0.26%/K
Temperature Coefficient of Isc	α (Isc)	0.04%/K