



Model: AS-S132/M12H

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POWER OUTPUT

# 650-670W 210mm cells Half Cut

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

Large area cells based on 210mm silicon wafers and half-cut cell technology Up to 21.6% module efficiency with high density interconnect technology Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection

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

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

- Max Module Efficiency: 21.6%
- No. of Cells: 132mm
- Weight: 33.9 kg
- Dimensions: 2384x1303x35mm



**30 YEAR**  
EUROPEAN  
PERFORMANCE  
WARRANTY



**12 YEAR**  
PRODUCT  
WARRANTY

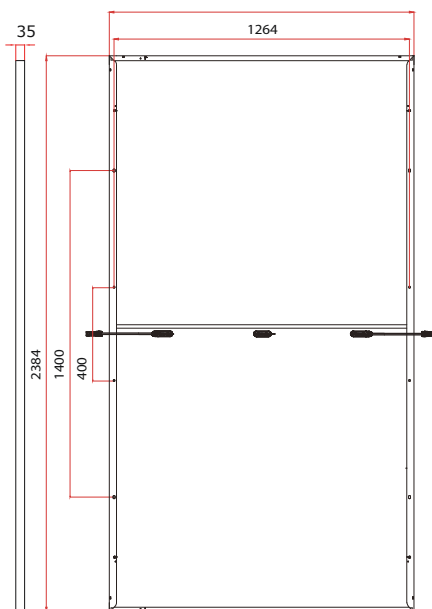
\* Specifications are subject to change without further notification

# Tier One Factory Produced

Model: AS-S132/M12H

650W-670W

## ENGINEERING DRAWING



## ELECTRICAL CHARACTERISTICS

Module	AS-S132/M12H				
Maximum Power at STC (Pmax)	650W	655W	660W	665W	670W
Open-Circuit Voltage (Voc)	45.3V	45.5V	45.7V	45.9V	46.1V
Short-Circuit Current (Isc)	18.44A	18.48A	18.53A	18.57A	18.62A
Optimum Operating Voltage (Vmp)	37.4V	37.6V	37.8V	38.0V	38.2V
Optimum Operating Current (Imp)	17.39A	17.43A	17.47A	17.51A	17.55A
Module Efficiency	20.9%	21.1%	21.2%	21.4%	21.6%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500Vdc (IEC /UL)				
Maximum Series Fuse Rating	30A				
Operating Temperature	-40°C to +85°C				

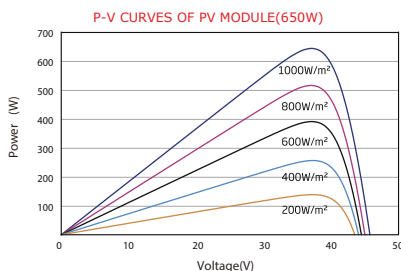
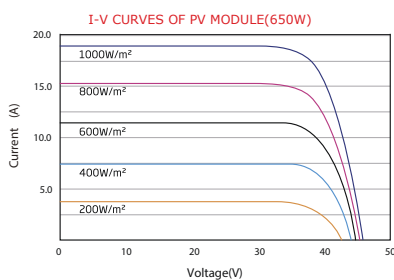
\*STC: Irradiance 1000W/m<sup>2</sup>, module temperature 25, AM=1.5  
Optional black frame or white frame module according to customer requirements

## NOCT

Module	AS-S132/M12H				
Maximum Power	492W	496W	500W	504W	508W
Open Circuit Voltage (Voc)	42.7V	42.9V	43.0V	43.2V	43.4V
Short Circuit Current (Isc)	14.86A	14.89A	14.93A	14.96A	15.01A
Maximum Power Voltage (Vmp)	34.9V	35.1V	35.3V	35.4V	35.6V
Maximum Circuit Current (Imp)	14.09A	14.13A	14.17A	14.22A	14.26A
NOCT	43°C (± 2°C)				

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

## I - V CURVES



## MECHANICAL CHARACTERISTICS

Solar Cells	Mono crystalline 182mm
No. of Cells	132 cells
Dimensions	2384x1303x35mm
Weight	28.6kg
Front Glass	AR coated 3.2 mm tempered glass
Frame	35 mm Anodized Aluminium Alloy
Junction Box	IP 68 rated
Cable	4.0mm <sup>2</sup> 350mm length can be customized
Connectors	MC4 Compatible
Packaging Configuration	31pcs / box, 558pcs / 40'HQ Container

## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	$\gamma$ (Pm)	-0.34%/K
Temperature Coefficient of Voc	$\beta$ (Voc)	-0.25%/K
Temperature Coefficient of Isc	$\alpha$ (Isc)	0.04%/K