

# AS-8M132N-BHC

## 675W~700W

### N TYPE MONOCRYSTALLINE MODULE

#### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 22.6% by using innovative N-type TOPCon cell technology.
- Extremely low LID (light induced degradation) and low annual power degradation ensure higher energy yield during the module's lifetime.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.

#### CERTIFICATIONS

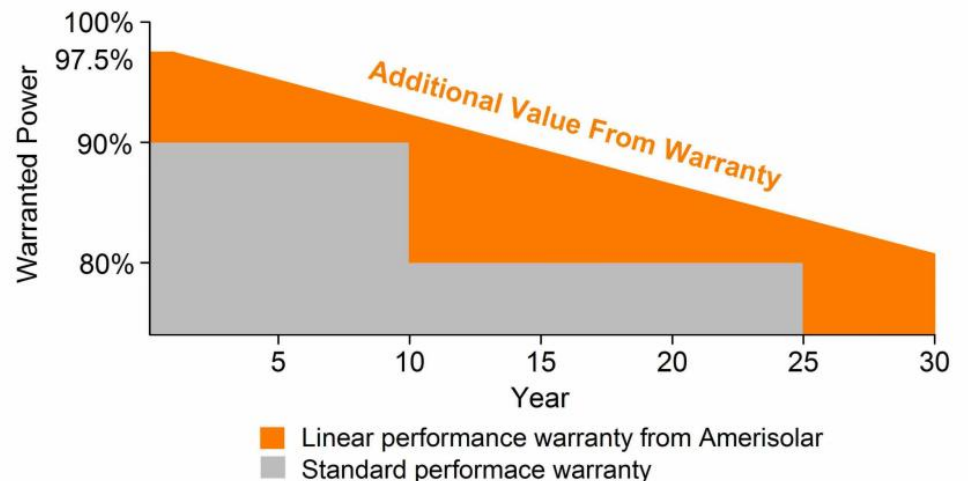
- IEC 61215, IEC 61730, CE
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system



#### SPECIAL WARRANTY

- 20 years product warranty
- 30 years linear power output warranty

Passionately  
committed to  
delivering innovative  
energy solution



## ELECTRICAL CHARACTERISTICS AT STC

Maximum Power ( $P_{max}$ )	675W	680W	685W	690W	695W	700W
Open Circuit Voltage ( $V_{oc}$ )	46.9V	47.1V	47.3V	47.5V	47.7V	47.9V
Short Circuit Current ( $I_{sc}$ )	18.24A	18.29A	18.34A	18.39A	18.44A	18.49A
Voltage at Maximum Power ( $V_{mp}$ )	39.0V	39.2V	39.4V	39.6V	39.8V	40.0V
Current at Maximum Power ( $I_{mp}$ )	17.31A	17.35A	17.39A	17.43A	17.47A	17.51A
Module Efficiency (%)	21.7	21.9	22.1	22.3	22.4	22.6
Operating Temperature	-40°C to +85°C					
Maximum System Voltage	1500V DC					
Fire Resistance Rating	Type 1 (in accordance with UL1703)/Class C (IEC61730)					
Maximum Series Fuse Rating	35A					

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5; Tolerance of  $P_{max}$ : ±3%; Measurement Tolerance: ±3%

## ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power ( $P_{max}$ )	510W	514W	518W	522W	526W	530W
Open Circuit Voltage ( $V_{oc}$ )	44.4V	44.6V	44.8V	45.0V	45.2V	45.4V
Short Circuit Current ( $I_{sc}$ )	14.71A	14.75A	14.79A	14.83A	14.87A	14.93A
Voltage at Maximum Power ( $V_{mp}$ )	36.9V	37.1V	37.2V	37.4V	37.6V	37.8V
Current at Maximum Power ( $I_{mp}$ )	13.84A	13.88A	13.91A	13.94A	13.99A	14.03A

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1 m/s

## ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-8M132N-BHC-690W)

Power Gain	$P_{max}$	$V_{oc}$	$I_{sc}$	$V_{mp}$	$I_{mp}$
10%	759W	47.5V	20.23A	39.6V	19.17A
15%	794W	47.5V	21.15A	39.6V	20.06A
20%	828W	47.5V	22.07A	39.6V	20.91A
25%	863W	47.5V	22.99A	39.6V	21.80A
30%	897W	47.5V	23.91A	39.6V	22.66A

## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline Bifacial N type 210*105mm
Number of cells	132 (6x22)
Module dimensions	2384x1303x35mm
Weight	38.7kg
Glass	2.0mm tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm <sup>2</sup> , Portrait: 300mm ; Landscape: 1400mm
Connector	MC4 or MC4 compatible

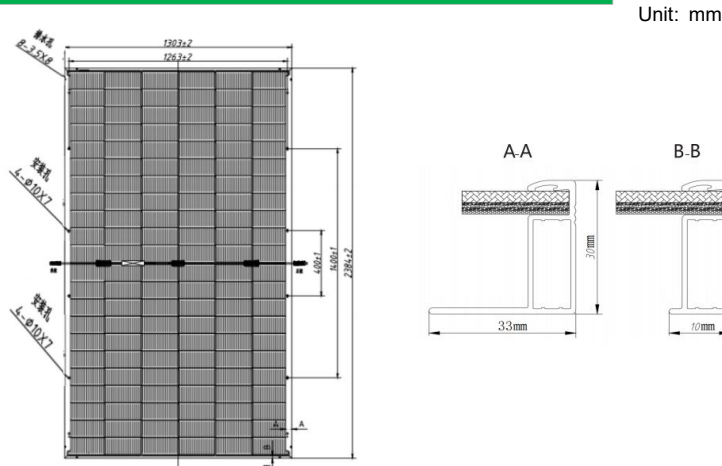
## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	44°C±2°C
Temperature Coefficients of $P_{max}$	-0.30%/°C
Temperature Coefficients of $V_{oc}$	-0.25%/°C
Temperature Coefficients of $I_{sc}$	0.046%/°C

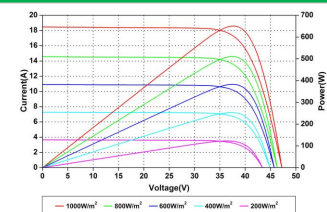
## PACKAGING

Standard packaging	31pcs/pallet
Module quantity per 40' container	558pcs (HQ)

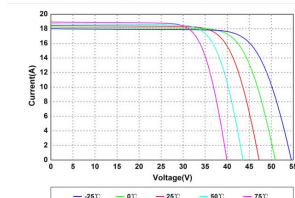
## ENGINEERING DRAWINGS



## IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

Specifications in this datasheet are subject to change without prior notice.