



# AS-8M132-BHC

## 650W~670W

### MONOCRYSTALLINE MODULE

#### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- More power gain up to 30% by utilizing the ambient light reflected from surrounding surfaces.
- Lower annual power degradation and higher energy yield during the module's lifetime.
- Superior performance under high temperature and low light conditions.
- High load-bearing capacity which can withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Excellent reliability and durability against extreme environmental conditions (high resistance to salt mist, ammonia, sand, acid and alkali, etc.).
- Potential induced degradation (PID) free.

#### CERTIFICATIONS

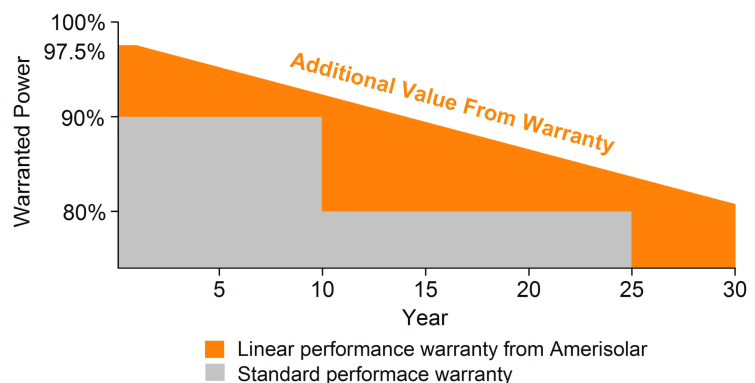
- IEC 61215, IEC 61730, CE
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system



#### SPECIAL WARRANTY

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

**Passionately**  
**committed to**  
**delivering innovative**  
**energy solution**



## ELECTRICAL CHARACTERISTICS AT STC\*

Module Type	AS-8M132-BHC-650W	AS-8M132-BHC-655W	AS-8M132-BHC-660W	AS-8M132-BHC-665W	AS-8M132-BHC-670W
Maximum Power ( $P_{max}$ )	650W	655W	660W	665W	670W
Open Circuit Voltage ( $V_{oc}$ )	45.48V	45.68V	45.88V	46.08V	46.28V
Short Circuit Current ( $I_{sc}$ )	18.34A	18.39A	18.44A	18.49A	18.54A
Voltage at Maximum Power ( $V_{mp}$ )	37.76V	37.96V	38.16V	38.36V	38.56V
Current at Maximum Power ( $I_{mp}$ )	17.21A	17.25A	17.29A	17.33A	17.37A
Module Efficiency (%)	20.93	21.09	21.25	21.41	21.57
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC				
Fire Resistance Rating	Class C				
Maximum Series Fuse Rating	30A				

\*STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5; Tolerance of P<sub>max</sub>: ±3%; Measurement Tolerance: ±3%

## ELECTRICAL CHARACTERISTICS AT NOCT\*\*

Module Type	AS-8M132-BHC-650W	AS-8M132-BHC-655W	AS-8M132-BHC-660W	AS-8M132-BHC-665W	AS-8M132-BHC-670W
Maximum Power ( $P_{max}$ )	488W	492W	496W	500W	504W
Open Circuit Voltage ( $V_{oc}$ )	43.21V	43.40V	43.59V	43.78V	43.97V
Short Circuit Current ( $I_{sc}$ )	14.67A	14.71A	14.75A	14.79A	14.83A
Voltage at Maximum Power ( $V_{mp}$ )	35.44V	35.65V	35.86V	36.06V	36.27V
Current at Maximum Power ( $I_{mp}$ )	13.77A	13.80A	13.83A	13.86A	13.90A

\*\*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-8M132-BHC-660W)

Power Gain	$P_{max}$	$V_{oc}$	$I_{sc}$	$V_{mp}$	$I_{mp}$
10%	726	45.33	20.38	38.16	19.12
15%	759	45.33	21.31	38.16	19.88
20%	792	45.33	22.24	38.16	20.75
25%	825	45.33	23.16	38.16	21.61
30%	858	45.33	24.09	38.16	22.78

## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline bifacial
Number of cells	132(6x22)
Module dimensions	2384x1303x35mm
Weight	38.5kg
Front cover	2mm tempered glass with AR coating
Back cover	2mm tempered glass
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm <sup>2</sup> , Length: 300mm
Connector	MC4 compatible

## TEMPERATURE CHARACTERISTICS

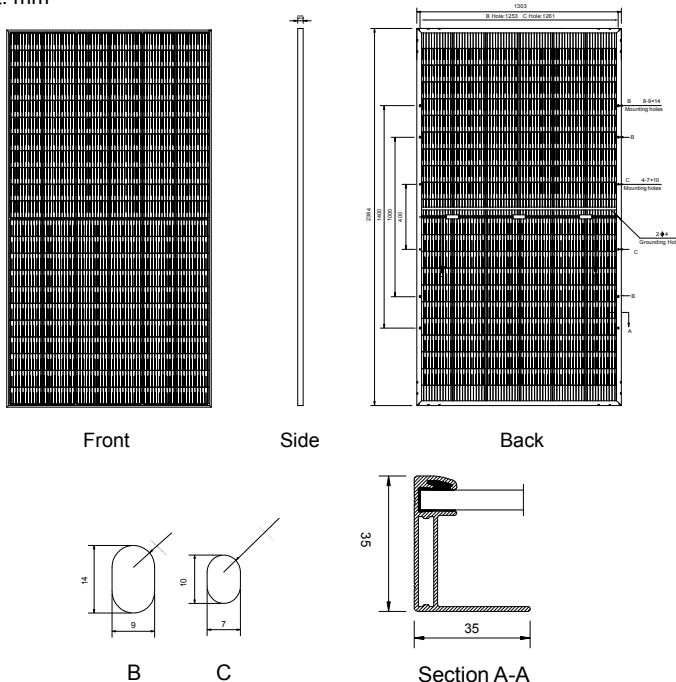
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of $P_{max}$	-0.34 %/°C
Temperature Coefficients of $V_{oc}$	-0.25 %/°C
Temperature Coefficients of $I_{sc}$	+0.04 %/°C

## PACKAGING

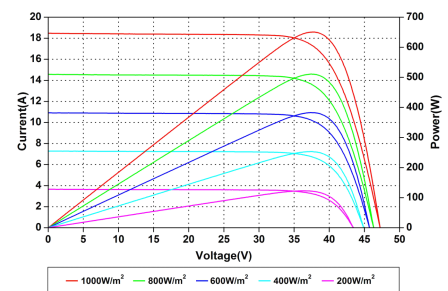
Standard packaging	31pcs/pallet
Module quantity per 20' container	124pcs
Module quantity per 40' container	558pcs(HQ)

## ENGINEERING DRAWINGS

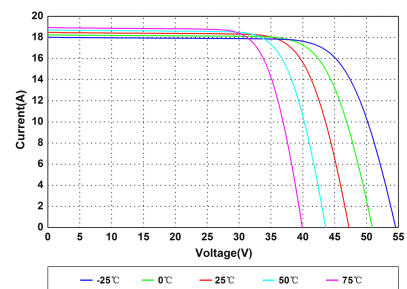
Unit: mm



## 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.