



AS-8M132-BHJ

680W~700W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 22.53% by using the most advanced HJT technology.
- 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

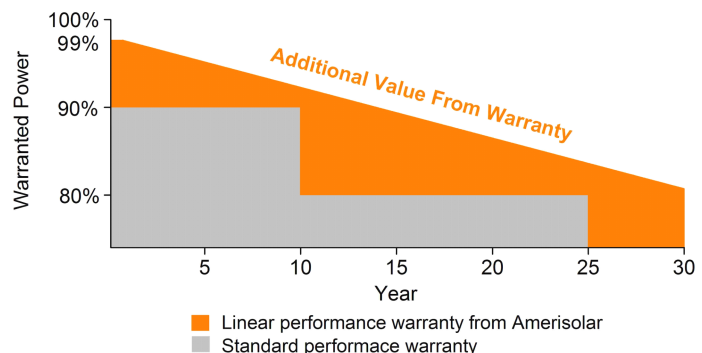


- IEC 61215, IEC 61730, CE
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

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-BHJ-680W	AS-8M132-BHJ-685W	AS-8M132-BHJ-690W	AS-8M132-BHJ-695W	AS-8M132-BHJ-700W
Maximum Power (P_{max})	680W	685W	690W	695W	700W
Open Circuit Voltage (V_{oc})	49.4V	49.6V	49.8V	50.0V	50.2V
Short Circuit Current (I_{sc})	17.27A	17.31A	17.35A	17.39A	17.43A
Voltage at Maximum Power (V_{mp})	41.4V	41.6V	41.8V	42.0V	42.2V
Current at Maximum Power (I_{mp})	16.43A	16.47A	16.51A	16.55A	16.59A
Module Efficiency (%)	21.89	22.05	22.21	22.37	22.53
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC				
Fire Resistance Rating	Class C				
Maximum Series Fuse Rating	35A				

*STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of P_{max}: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT**

Module Type	AS-8M132-BHJ-680W	AS-8M132-BHJ-685W	AS-8M132-BHJ-690W	AS-8M132-BHJ-695W	AS-8M132-BHJ-700W
Maximum Power (P_{max})	510W	514W	518W	522W	526W
Open Circuit Voltage (V_{oc})	46.4V	46.6V	46.8V	47.0V	47.2V
Short Circuit Current (I_{sc})	14.00A	14.03A	14.06A	14.09A	14.12A
Voltage at Maximum Power (V_{mp})	38.4V	38.6V	38.8V	39.0V	39.2V
Current at Maximum Power (I_{mp})	13.29A	13.32A	13.36A	13.39A	13.42A

**NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-8M132-BHJ-690W)

Power Gain	P_{max}	V_{oc}	I_{sc}	V_{mp}	I_{mp}
10%	759W	49.8V	19.09A	41.8V	18.16A
15%	794W	49.8V	19.97A	41.8V	19.00A
20%	828W	49.8V	20.82A	41.8V	19.81A
25%	863W	49.8V	21.71A	41.8V	20.65A
30%	897W	49.8V	22.56A	41.8V	21.46A

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline HJT
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 ² , Length: Portrait: 300mm; Landscape: 1400mm
Connector	MC4 compatible

TEMPERATURE CHARACTERISTICS

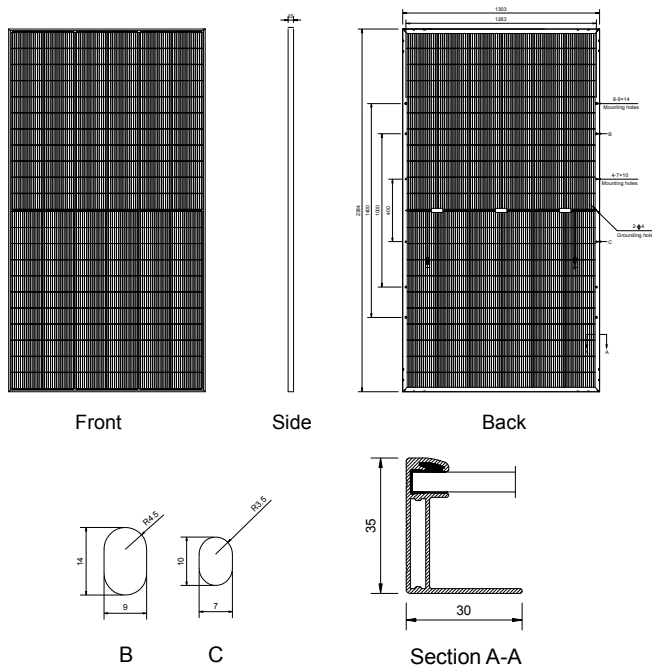
Nominal Operating Cell Temperature (NOCT)	42°C±2°C
Temperature Coefficients of P_{max}	-0.26%/°C
Temperature Coefficients of V_{oc}	-0.24%/°C
Temperature Coefficients of I_{sc}	0.04%/°C

PACKAGING

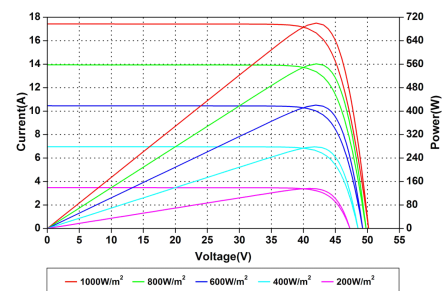
Standard packaging	31pcs/pallet
Module quantity per 20' container	124pcs
Module quantity per 40' container	558pcs(HQ)

ENGINEERING DRAWINGS

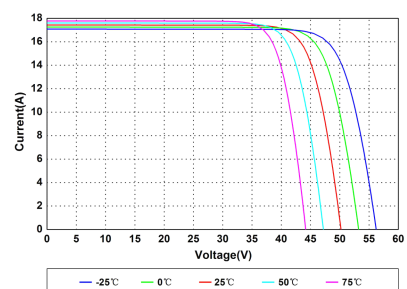
Unit: mm



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.