



AS-8M132N-BHC 690W~715W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 23.02% by using the most advanced N-type TOPCon cell 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

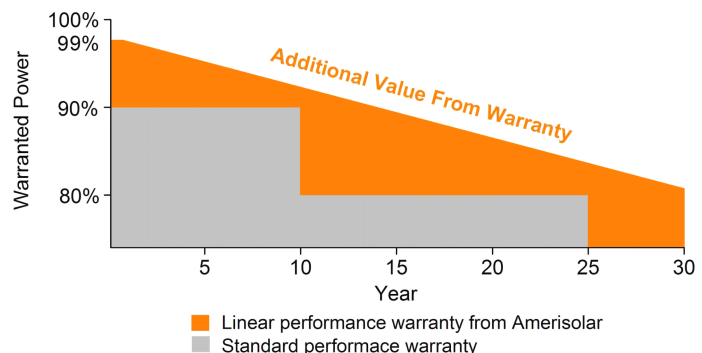


- IEC 61215, IEC 61730, CE
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

SPECIAL WARRANTY

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

**Passionately
committed to
delivering innovative
energy solution**



ELECTRICAL CHARACTERISTICS AT STC*

Maximum Power (P_{max})	690W	695W	700W	705W	710W	715W
Open Circuit Voltage (V_{oc})	49.8V	50.0V	50.2V	50.4V	50.6V	50.8V
Short Circuit Current (I_{sc})	17.35A	17.39A	17.43A	17.47A	17.51A	17.55A
Voltage at Maximum Power (V_{mp})	41.8V	42.0V	42.2V	42.4V	42.6V	42.8V
Current at Maximum Power (I_{mp})	16.51A	16.55A	16.59A	16.63A	16.67A	16.71A
Module Efficiency (%)	22.21	22.37	22.53	22.70	22.86	23.02
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 Pmax: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT**

Maximum Power (P_{max})	518W	522W	526W	530W	534W	538W
Open Circuit Voltage (V_{oc})	46.8V	47.0V	47.2V	47.4V	47.6V	47.8V
Short Circuit Current (I_{sc})	14.06A	14.09A	14.12A	14.15A	14.18A	14.21A
Voltage at Maximum Power (V_{mp})	38.8V	39.0V	39.2V	39.4V	39.6V	39.8V
Current at Maximum Power (I_{mp})	13.36A	13.39A	13.42A	13.46A	13.49A	13.52A

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

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-8M132N-BHC 695W)

Power Gain	P_{max}	V_{oc}	I_{sc}	V_{mp}	I_{mp}
10%	765W	50.0V	19.14A	42.0V	18.22A
15%	799W	50.0V	19.99A	42.0V	19.03A
20%	834W	50.0V	20.86A	42.0V	19.86A
25%	869W	50.0V	21.74A	42.0V	20.70A
30%	904W	50.0V	22.62A	42.0V	21.53A

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline N-type
Number of cells	132(6x22)
Module dimensions	2384x1303x30mm
Weight	38.5kg
Front cover	2.0mm 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

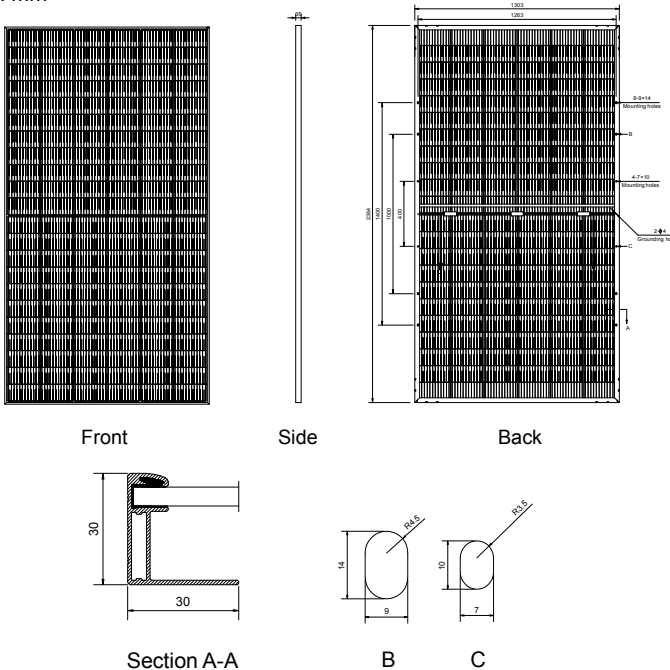
Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of P_{max}	-0.30%/°C
Temperature Coefficients of V_{oc}	-0.25%/°C
Temperature Coefficients of I_{sc}	0.045%/°C

PACKAGING

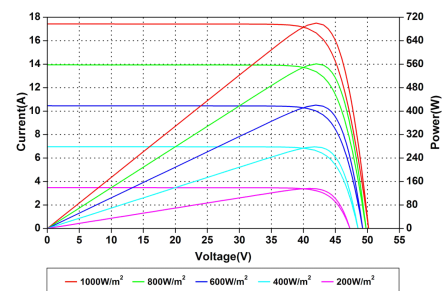
Standard packaging	36pcs/pallet
Module quantity per 20' container	144pcs
Module quantity per 40' container	648pcs(HQ)

ENGINEERING DRAWINGS

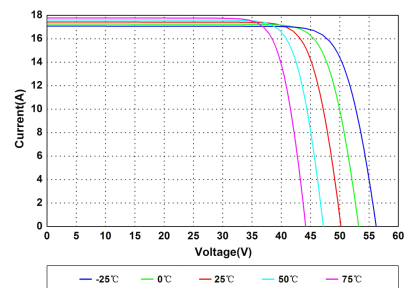
Unit: mm



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.