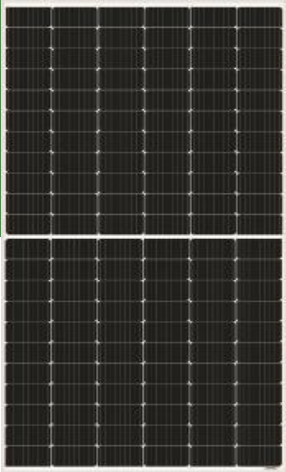


AS-7M132-BHC 520W~535W



MONOCRYSTALLINE BIFACIAL N-TYPE TOPCON 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



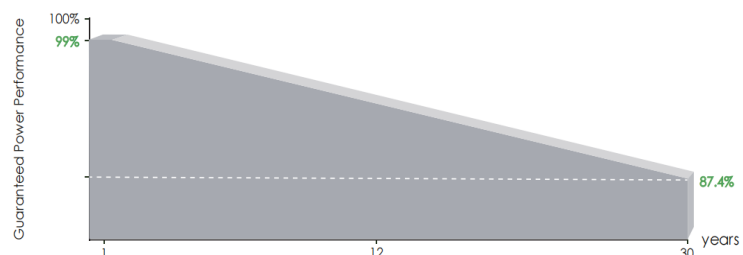
- IEC 61215, IEC 61730, CE
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

SPECIAL WARRANTY

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

Passionately
committed to
delivering innovative
energy solution

LINEAR PERFORMANCE WARRANTY



ELECTRICAL CHARACTERISTICS AT STC*

Maximum Power (P_{max})	520W	525W	530W	535W
Open Circuit Voltage (V_{oc})	47.03V	47.22V	47.41V	47.60V
Short Circuit Current (I_{sc})	14.14A	14.21A	14.28A	14.35A
Voltage at Maximum Power (V_{mp})	39.36V	39.53V	39.70V	39.87V
Current at Maximum Power (I_{mp})	13.21A	13.28A	13.35A	13.42A
Module Efficiency (%)	21.90	22.10	22.30	22.50
Operating Temperature	-40°C to +85°C			
Maximum System Voltage	1000/1500V (IEC)			
Fire Resistance Rating	Class C			
Maximum Series Fuse Rating	25A			

*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})	391W	395W	399W	404W
Open Circuit Voltage (V_{oc})	36.27V	44.90V	45.05V	45.21V
Short Circuit Current (I_{sc})	10.78A	11.46A	11.52A	11.68A
Voltage at Maximum Power (V_{mp})	33.0V	36.44V	36.61	36.78V
Current at Maximum Power (I_{mp})	14.17A	10.84A	10.90A	10.98A

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

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-7M132-BHC-520W)

Power Gain	P_{max}	V_{oc}	I_{sc}	V_{mp}	I_{mp}
10%	572W	47.03V	15.55A	39.36V	14.53A
15%	598W	47.03V	16.26A	39.36V	15.19A
20%	624W	47.03V	16.97A	39.36V	16.96A
25%	650W	47.03V	17.68A	39.36V	17.66A
30%	676W	47.03V	18.38A	39.36V	17.17A

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline Bifacial TOPCON 182*91mm
Number of cells	132(6x22)
Module dimensions	2094x1134x30mm
Weight	30kg
Front/Back Glass	2.0mm tempered glass with AR coated
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm ² , Length: 300mm
Connector	MC4 or MC4 compatible

TEMPERATURE CHARACTERISTICS

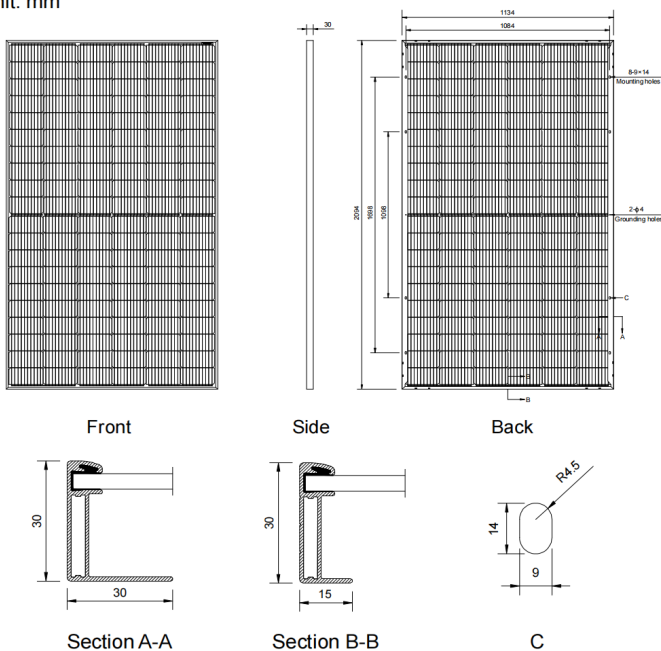
Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of P_{max}	-0.36%/°C
Temperature Coefficients of V_{oc}	-0.26%/°C
Temperature Coefficients of I_{sc}	0.048%/°C

PACKAGING

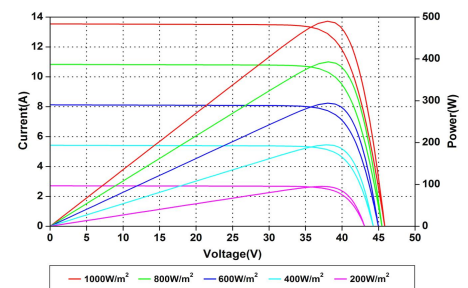
Standard packaging	36pcs/pallet
Module quantity per 20' container	180pcs
Module quantity per 40' container	792pcs(HQ)

ENGINEERING DRAWINGS

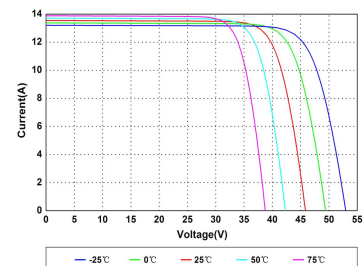
Unit: mm



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.