

AS-6M120-BHC

360W~380W

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

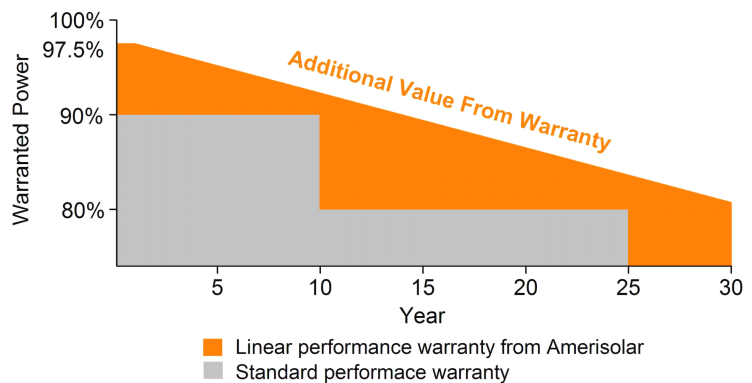


- IEC 61215, IEC 61730, CE
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

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-6M120-BHC-360W	AS-6M120-BHC-365W	AS-6M120-BHC-370W	AS-6M120-BHC-375W	AS-6M120-BHC-380W
Maximum Power (P_{max})	360W	365W	370W	375W	380W
Open Circuit Voltage (V_{OC})	41.2V	41.4V	41.6V	41.8V	42.0V
Short Circuit Current (I_{SC})	11.16A	11.23A	11.30A	11.37A	11.44A
Voltage at Maximum Power (V_{mp})	34.2V	34.4V	34.6V	34.8V	35.0V
Current at Maximum Power (I_{mp})	10.53A	10.62A	10.70A	10.78A	10.86A
Module Efficiency (%)	19.73	20.01	20.28	20.55	20.83
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1000V DC/1500V DC				
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**

Module Type	AS-6M120-BHC-360W	AS-6M120-BHC-365W	AS-6M120-BHC-370W	AS-6M120-BHC-375W	AS-6M120-BHC-380W
Maximum Power (P_{max})	267W	271W	275W	279W	283W
Open Circuit Voltage (V_{OC})	37.8V	38.0V	38.2V	38.4V	38.6V
Short Circuit Current (I_{SC})	9.03A	9.09A	9.15A	9.21A	9.27A
Voltage at Maximum Power (V_{mp})	31.2V	31.4V	31.6V	31.8V	32.0V
Current at Maximum Power (I_{mp})	8.56A	8.64A	8.71A	8.78A	8.85A

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

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-6M120-BHC-370W)

Power Gain	P_{max}	V_{OC}	I_{SC}	V_{mp}	I_{mp}
10%	407W	41.6V	12.38A	34.6V	11.77A
15%	423W	41.6V	12.87A	34.6V	12.23A
20%	444W	41.6V	13.51A	34.6V	12.84A
25%	463W	41.6V	14.09A	34.6V	13.39A
30%	481W	41.6V	14.63A	34.6V	13.91A

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline bifacial
Number of cells	120 (6x20)
Module dimensions	1756x1039x35mm
Weight	20kg
Front cover	3.2mm tempered glass with AR coating
Back cover	Transparent backsheet
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm ² , Length: Portrait: 300mm; Landscape: 1200mm
Connector	MC4 compatible

TEMPERATURE CHARACTERISTICS

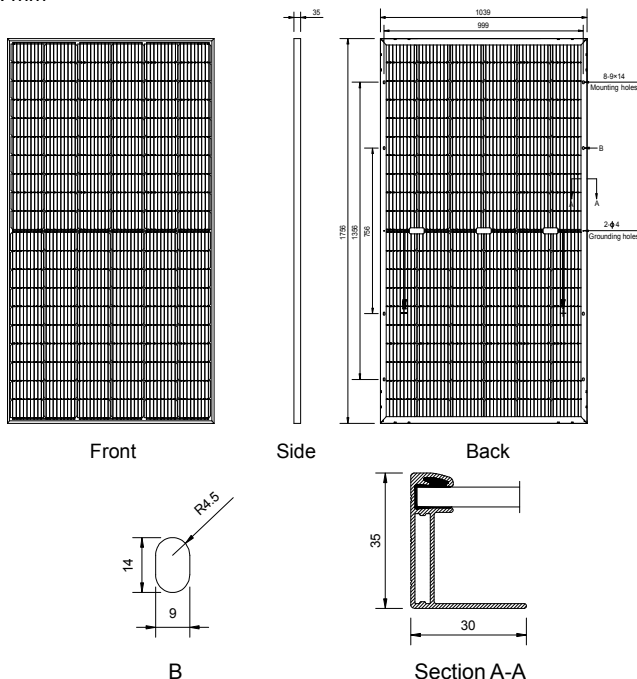
Nominal Operating Cell Temperature (NOCT)	42°C±2°C
Temperature Coefficients of P_{max}	-0.36%/°C
Temperature Coefficients of V_{OC}	-0.28%/°C
Temperature Coefficients of I_{SC}	0.05%/°C

PACKAGING

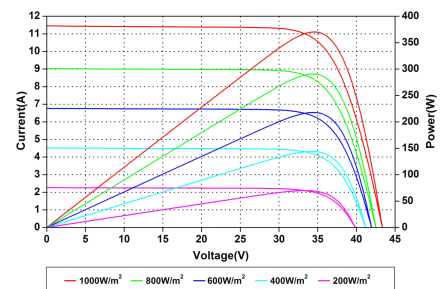
Standard packaging	31pcs/pallet
Module quantity per 20' container	186pcs
Module quantity per 40' container	806pcs(HQ)

ENGINEERING DRAWINGS

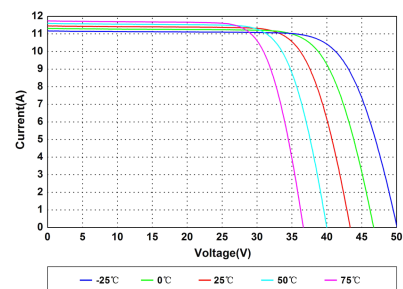
Unit: mm



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.