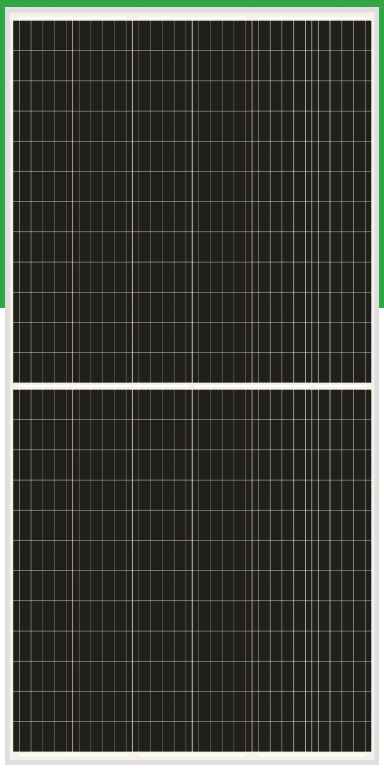
Amerisolar | New Energy New World®



AS-6M-BHC
395W~415W
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.

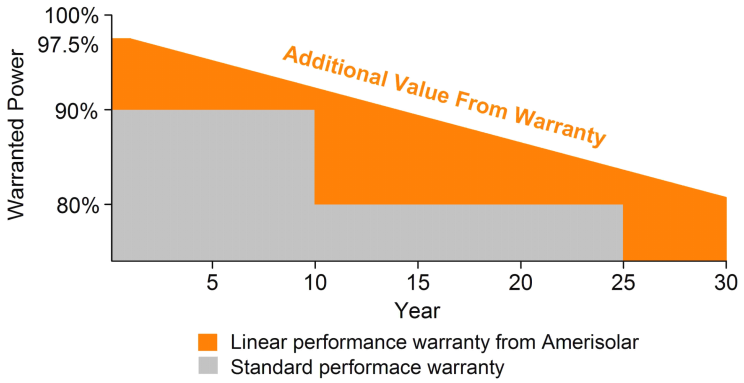
CERTIFICATIONS

- 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



Worldwide Energy and Manufacturing USA Co., Ltd.
www.weamerisolar.com, sales@weamerisolar.com

ELECTRICAL CHARACTERISTICS AT STC*

Module Type	AS-6M-BHC-395W	AS-6M-BHC-400W	AS-6M-BHC-405W	AS-6M-BHC-410W	AS-6M-BHC-415W
Maximum Power (P_{max})	395W	400W	405W	410W	415W
Open Circuit Voltage (V_{OC})	49.4V	49.6V	49.8V	50.0V	50.2V
Short Circuit Current (I_{SC})	10.18A	10.25A	10.32A	10.39A	10.46A
Voltage at Maximum Power (V_{mp})	41.0V	41.2V	41.4V	41.6V	41.8V
Current at Maximum Power (I_{mp})	9.64A	9.71A	9.79A	9.86A	9.93A
Module Efficiency (%)	19.63	19.88	20.13	20.38	20.63
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1000V DC/1500V DC				
Fire Resistance Rating	Class C				
Maximum Series Fuse Rating	20A				

*STC: Irradiance 1000W/m^2, Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT**

Maximum Power (P_{max})	296W	300W	304W	308W	312W
Open Circuit Voltage (V_{OC})	45.5V	45.7V	45.9V	46.1V	46.3V
Short Circuit Current (I_{SC})	8.25A	8.30A	8.36A	8.42A	8.48A
Voltage at Maximum Power (V_{mp})	37.4V	37.6V	37.8V	38.0V	38.2V
Current at Maximum Power (I_{mp})	7.92A	7.98A	8.05A	8.11A	8.17A

**NOCT: Irradiance 800W/m^2, Ambient temperature 20°C, Wind Speed 1 m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-6M-BHC-410W)

Power Gain	P_{max}	V_{OC}	I_{SC}	V_{mp}	I_{mp}
10%	451W	50.0V	11.41A	41.6V	10.85A
15%	472W	50.0V	11.94A	41.6V	11.35A
20%	492W	50.0V	12.45A	41.6V	11.83A
25%	513W	50.0V	12.98A	41.6V	12.34A
30%	533W	50.0V	13.48A	41.6V	12.82A

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline bifacial
Number of cells	144 (6x24)
Module dimensions	2008x1002x35mm
Weight	22kg
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: 1300mm
Connector	MC4 compatible

TEMPERATURE CHARACTERISTICS

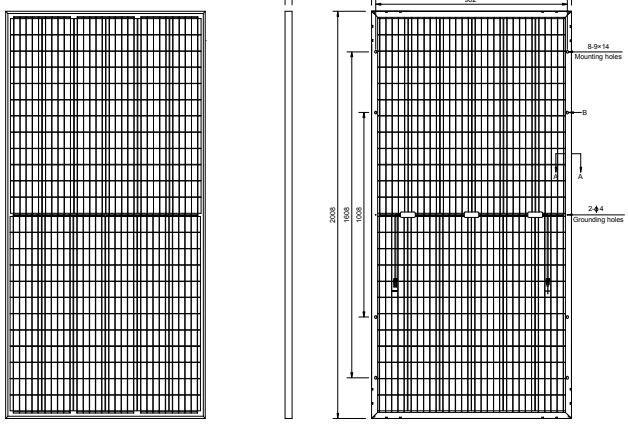
Nominal Operating Cell Temperature (NOCT)	42°C±2°C
Temperature Coefficients of P_{max}	-0.36%/°C
Temperature Coefficients of V_{OC}	-0.28%/°C
Temperature Coefficients of I_{SC}	0.05%/°C

PACKAGING

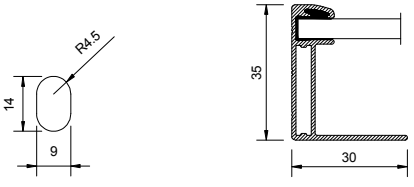
Standard packaging	31pcs/pallet
Module quantity per 20' container	310pcs
Module quantity per 40' container	682pcs(GP)/748pcs(HQ)

ENGINEERING DRAWINGS

Unit: mm

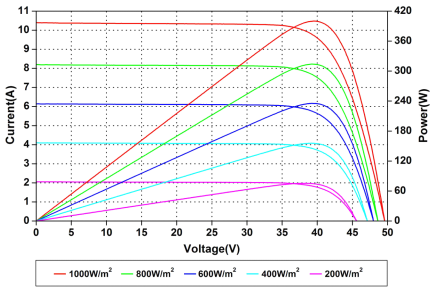


Front Side Back

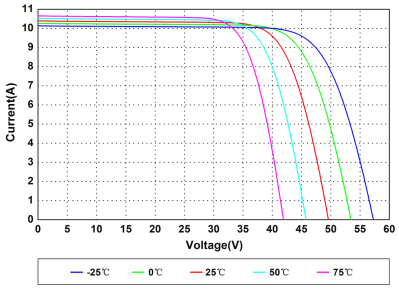


B Section A-A

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.