

AS-8M120N-BHC 615W~635W

N TYPE MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 22.4% by using innovative N-type TOPCon cell technology.
- Extremely low LID (light induced degradation) and low annual power degradation ensure higher energy yield during the module's lifetime.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.

CERTIFICATIONS

- IEC 61215, IEC 61730, CE
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

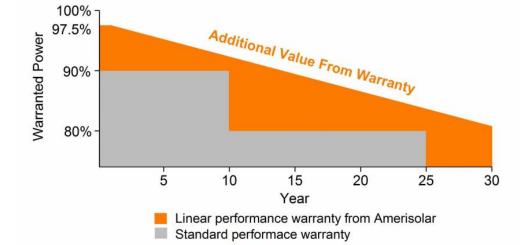
SPECIAL WARRANTY

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

Passionately

committed

innovative



ELECTRICAL CHARACTERISTICSAT STC					
Maximum Power (Pmax)	615W	620W	625W	630W	635W
Open Circuit Voltage (Voc)	42.7V	42.9V	43.1V	43.3V	43.5V
Short Circuit Current (Isc)	18.26A	18.31A	18.36A	18.41A	18.46A
Voltage at Maximum Power (V _{mp})	35.5V	35.7V	35.9V	36.1V	36.3V
Current at Maximum Power (Imp)	17.33A	17.37A	17.41A	17.46A	17.50A
Module Efficiency (%)	21.7	21.9	22.1	22.3	22.4
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC				
Fire Resistance Rating	Type 1(in accordance with UL1703)/Class C(IEC61730)				
Maximum Series Fuse Rating	35A				

STC: lrradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICSAT NOCT					
Maximum Power (Pmax)	465W	469W	473W	476W	480W
Open Circuit Voltage (Voc)	40.4V	40.6V	40.8V	41.0V	41.2V
Short Circuit Current (I _{SC})	14.72A	14.77A	14.81A	14.85A	14.89A
Voltage at Maximum Power (V _{mp})	33.6V	33.8V	33.9V	34.1V	34.3V
Current at Maximum Power (Imp)	13.86A	13.89A	13.93A	13.96A	13.99A

NOCT:Irradiance $800W/m^2$, Ambient temperature $20^{\circ}C$, Wind Speed 1 m/s

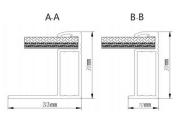
ELECTRICAL CHARAC	TERISTICS WITH DIF	FERENT REAR SIDE F	POWER GAIN (EXAMPL	E: AS-8M12ON-BHC-6	35W)
Power Gain	Pmax	Voc	Isc	Vmp	Imp
10%	699W	43.5V	20.31A	36.3V	19.26A
15%	730W	43.5V	21.23A	36.3V	20.11A
20%	763W	43.5V	22.15A	36.3V	21.02A
25%	794W	43.5V	23.08A	36.3V	21.88A
30%	826W	43.5V	24.00A	36.3V	22.76A

MECHANICAL	CHARACTERISTICS		
Cell type	Monocrystalline Bifacial N type 210*105mm		
Number of cells	120 (6x20)		
Module dimensions	2172x1303x35mm		
Weight	35.3kg		
Glass	2.0mm tempered glass with AR coating		
Frame	Anodized aluminum alloy		
Junction box	IP68, 3 diodes		
Cable	4mm ² , Portrait: 300mm; Landscape: 1300mm		
Connector	MC4 or MC4 compatible		

TEMPERATURE CHARACTERISTICS				
Nominal Operating Cell Temperature (NOCT)	44°C±2°C			
Temperature Coefficients of P _{max}	-0.3%/°C			
Temperature Coefficients of V _{OC}	-0.25%/°C			
Temperature Coefficients of $I_{\rm SC}$	0.046%/°C			

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

ENGINEERING DRAWINGS



Unit: mm

Specifications in this datasheet are subject to change without prior notice.

IV CURVES

