

AS-7M108-BHC Black 415W~435W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 22.28% 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.
- Aesthetically appealing design with black backsheet and frame.

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 to delivering innovative energy solution









ELECTRICAL CHARACTERISTICS AT STC					
Maximum Power (P _{max})	415W	420W	425W	430W	435W
Open Circuit Voltage (Voc)	37.8V	38.0V	38.2V	38.4V	38.6V
Short Circuit Current (I _{SC})	13.88A	13.94A	14.00A	14.06A	14.12A
Voltage at Maximum Power (V _{mp})	31.6V	31.8V	32.0V	32.2V	32.4V
Current at Maximum Power (I _{mp})	13.14A	13.21A	13.29A	13.36A	13.43A
Module Efficiency (%)	21.25	21.51	21.76	22.02	22.28
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					
Maximum Power (P _{max})	312W	316W	320W	324W	328W
Open Circuit Voltage (Voc)	35.9V	36.1V	36.3V	36.5V	36.7V
Short Circuit Current (I _{SC})	11.24A	11.29A	11.34A	11.39A	11.44A
Voltage at Maximum Power (V _{mp})	29.7V	29.9V	30.1V	30.3V	30.5V
Current at Maximum Power (I _{mp})	10.51A	10.57A	10.64A	10.70A	10.75A

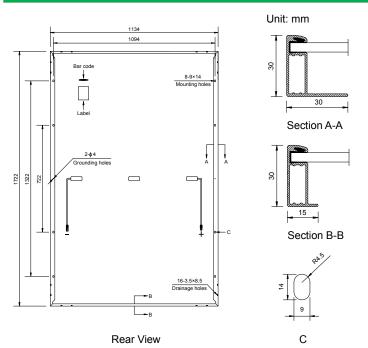
NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS			
Cell type	Monocrystalline N-type 182*91mm		
Number of cells	108 (6x18)		
Module dimensions	1722x1134x30mm (67.80x44.65x1.18inches)		
Weight	20.5kg (45.2lbs)		
Front cover	3.2mm (0.13inches) tempered glass with AR coating		
Frame	Anodized aluminum alloy		
Junction box	IP68, 3 diodes		
Cable	4mm² (0.006inches²), Portrait: 300mm (11.81inches);		
	Landscape: 1200mm (47.24inches)		
Connector	MC4 or 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			

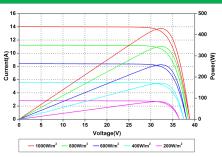
PACKAGING	
Standard packaging	36pcs/pallet
Module quantity per 20' container	216pcs
Module quantity per 40' container	936pcs (HQ)

ENGINEERING DRAWINGS

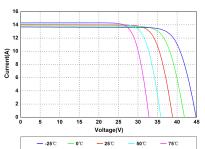


Specifications in this datasheet are subject to change without prior notice.

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures