



AS-7M108-HC

410W~430W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

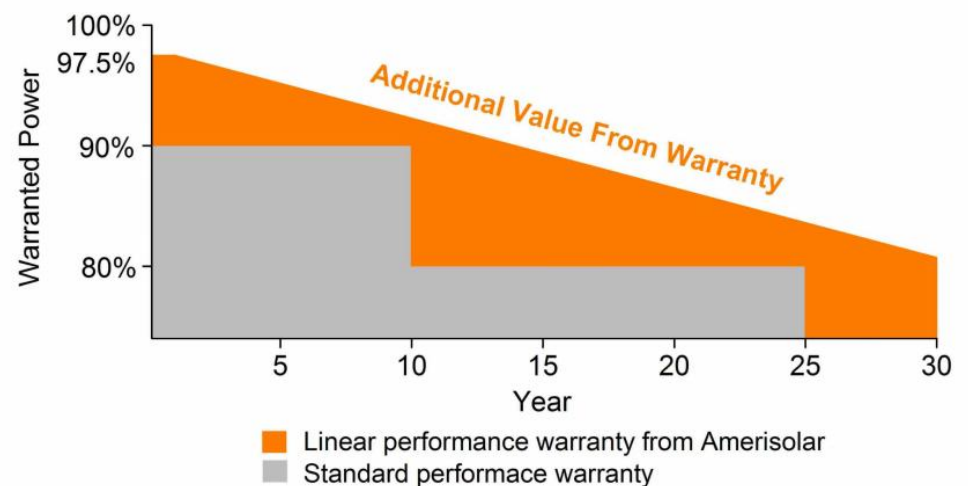
- High module conversion efficiency up to 22.0% by using innovative Half-cell design and Multi-busbar(MBB) cell technology.
- Low temperature coefficient and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 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 to delivering innovative energy solution

ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P_{max})	410W	415W	420W	425W	430W
Open Circuit Voltage (V_{oc})	37.5V	37.7V	37.9V	38.1V	38.3V
Short Circuit Current (I_{sc})	13.88A	13.96A	14.04A	14.11A	14.18A
Voltage at Maximum Power (V_{mp})	31.6V	31.8V	32.0V	32.2V	32.4V
Current at Maximum Power (I_{mp})	12.98A	13.06A	13.13A	13.20A	13.28A
Module Efficiency (%)	21.0	21.3	21.5	21.8	22.0
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	25A				

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of P_{max}: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power (P_{max})	311W	315W	318W	322W	326W
Open Circuit Voltage (V_{oc})	35.8V	36.0V	36.2V	36.4V	36.6V
Short Circuit Current (I_{sc})	11.16A	11.22A	11.27A	11.33A	11.38A
Voltage at Maximum Power (V_{mp})	29.6V	29.8V	30.0V	30.2V	30.3V
Current at Maximum Power (I_{mp})	10.51A	10.56A	10.62A	10.67A	10.74A

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	22kg (49.5lbs)
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Sliver/black Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm ² (0.006inches ²), Portrait: 300mm (11.78inches); Landscape: 300mm (11.78inches)
Connector	MC4 or MC4 compatible

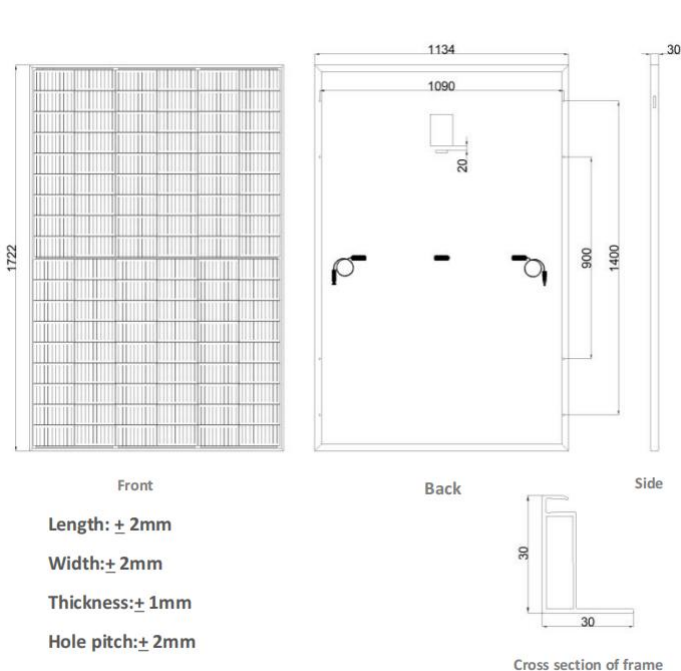
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.31%/°C
Temperature Coefficients of V_{oc}	-0.26%/°C
Temperature Coefficients of I_{sc}	0.046%/°C

PACKAGING

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

ENGINEERING DRAWINGS



IV CURVES

