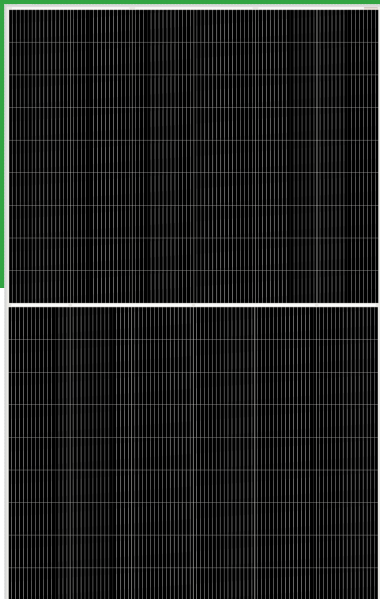




AS-8M108N-HC

555W~585W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 22.91% by using the most advanced N-type TOPCon 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

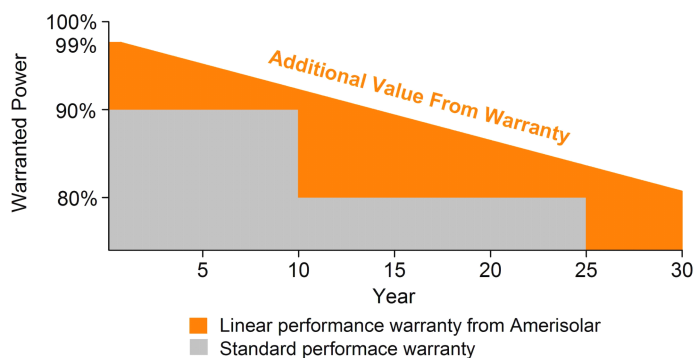
- IEC 61215, IEC 61730, CE
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system



SPECIAL WARRANTY

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

Passionately
committed to
delivering innovative
energy solution



ELECTRICAL CHARACTERISTICS AT STC

Maximum Power (P_{max})	555W	560W	565W	570W	575W	580W	585W
Open Circuit Voltage (V_{OC})	40.4V	40.6V	40.8V	41.0V	41.2V	41.4V	41.6V
Short Circuit Current (I_{SC})	17.08A	17.13A	17.18A	17.23A	17.28A	17.33A	17.38A
Voltage at Maximum Power (V_{mp})	34.4V	34.6V	34.8V	35.0V	35.2V	35.4V	35.6V
Current at Maximum Power (I_{mp})	16.14A	16.19A	16.24A	16.29A	16.34	16.39A	16.44A
Module Efficiency (%)	21.73	21.93	22.13	22.32	22.52	22.72	22.91
Operating Temperature	-40°C to +85°C						
Maximum System Voltage	1000V DC/1500V DC						
Fire Resistance Rating	Type 1(in accordance with UL1703)/Class C(IEC61730)						
Maximum Series Fuse Rating	30A						

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})	416W	420W	424W	428W	432W	436W	440W
Open Circuit Voltage (V_{OC})	38.4V	38.6V	38.8V	39.0V	39.2V	39.4V	39.6V
Short Circuit Current (I_{SC})	13.84A	13.88A	13.92A	13.96A	14.00A	14.04A	14.08A
Voltage at Maximum Power (V_{mp})	32.6V	32.8V	33.0V	33.2V	33.4V	33.6V	33.8V
Current at Maximum Power (I_{mp})	12.76A	12.80A	12.84A	12.89A	12.93A	12.97A	13.01A

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

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline N-type
Number of cells	108(6x18)
Module dimensions	1960x1303x30mm
Weight	28kg
Front cover	3.2mm tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm ² , Length: Portrait: 300mm; Customized Length
Connector	MC4 or MC4 compatible

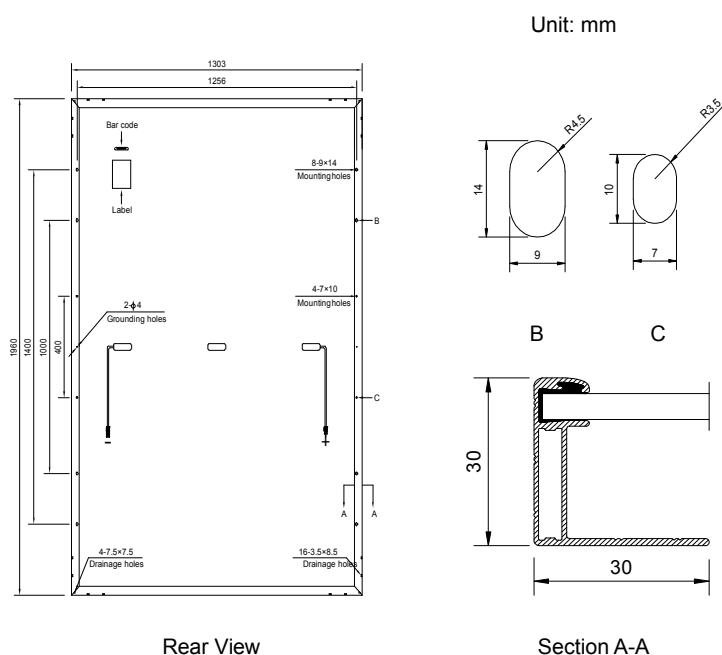
TEMPERATURE CHARACTERISTICS

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

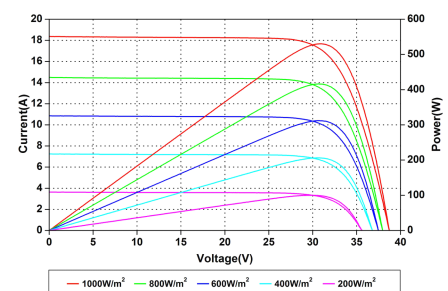
PACKAGING

Standard packaging	36pcs/pallet
Module quantity per 20' container	288pcs
Module quantity per 40' container	648pcs (HQ)

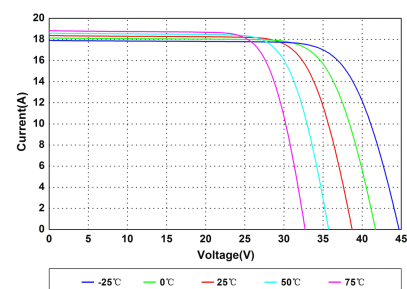
ENGINEERING DRAWINGS



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.