

AS-7M100-HC

360W~380W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 20.70% 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

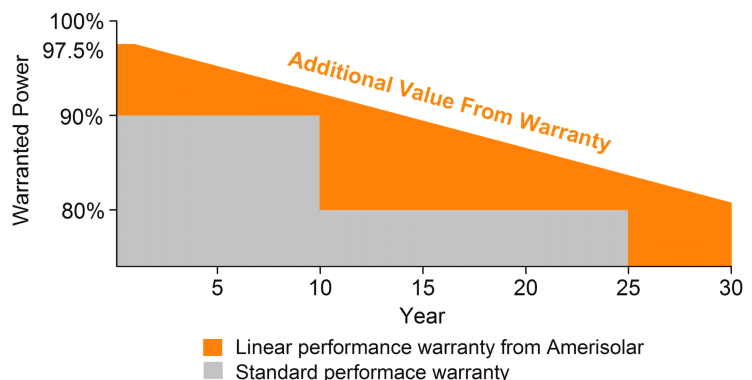
- IEC 61215, IEC 61730, CE
- ISO 9001:2015: Quality management system
- ISO 14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system



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})	360W	365W	370W	375W	380W
Open Circuit Voltage (V_{OC})	34.0V	34.2V	34.4V	34.6V	34.8V
Short Circuit Current (I_{SC})	13.45A	13.52A	13.59A	13.66A	13.73A
Voltage at Maximum Power (V_{mp})	28.4V	28.6V	28.8V	29.0V	29.2V
Current at Maximum Power (I_{mp})	12.68A	12.77A	12.85A	12.94A	13.02A
Module Efficiency (%)	19.61	19.88	20.16	20.43	20.70
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	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})	270W	274W	278W	282W	286W
Open Circuit Voltage (V_{OC})	31.3V	31.5V	31.7V	31.9V	32.1V
Short Circuit Current (I_{SC})	10.89A	10.94A	10.99A	11.04A	11.09A
Voltage at Maximum Power (V_{mp})	25.8V	26.0V	26.2V	26.4V	26.6V
Current at Maximum Power (I_{mp})	10.47A	10.54A	10.62A	10.69A	10.76A

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

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline PERC 182*91mm
Number of cells	100 (5x20)
Module dimensions	1912x960x35mm (75.28x37.80x1.38inches)
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	4mm ² (0.006inches ²), Portrait: 300mm (11.81inches); Landscape: 1200mm (47.24inches)
Connector	MC4 or MC4 compatible

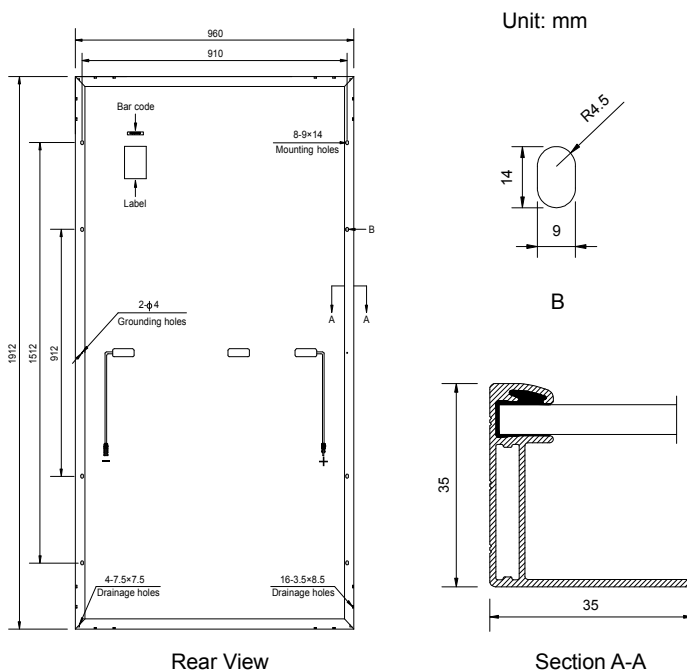
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of P_{max}	-0.36%/°C
Temperature Coefficients of V_{OC}	-0.28%/°C
Temperature Coefficients of I_{SC}	0.05%/°C

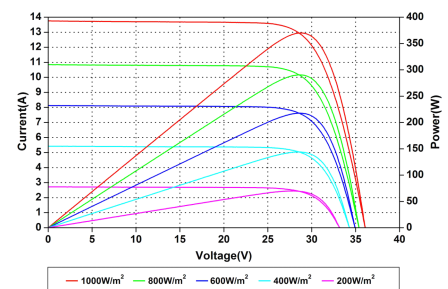
PACKAGING

Standard packaging	31pcs/pallet
Module quantity per 20' container	372pcs
Module quantity per 40' container	744pcs(GP)/816pcs(HQ)

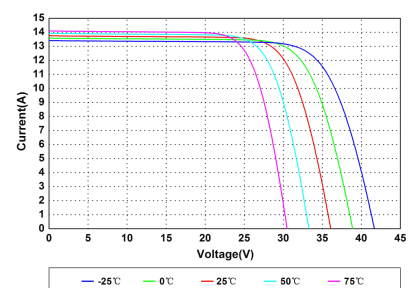
ENGINEERING DRAWINGS



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.