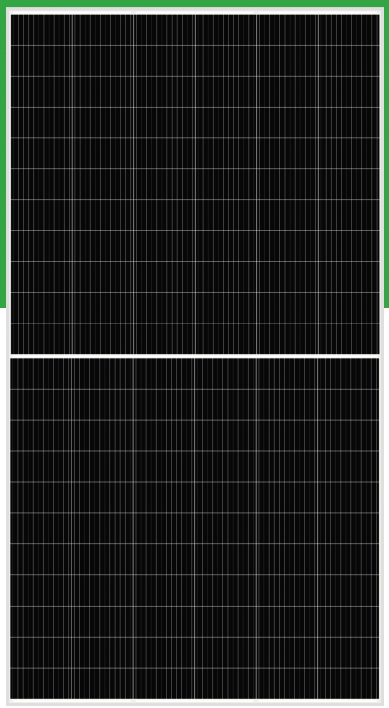
Amerisolar | New Energy New World®



AS-8M132-HC
640W~665W
MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 21.41% 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.

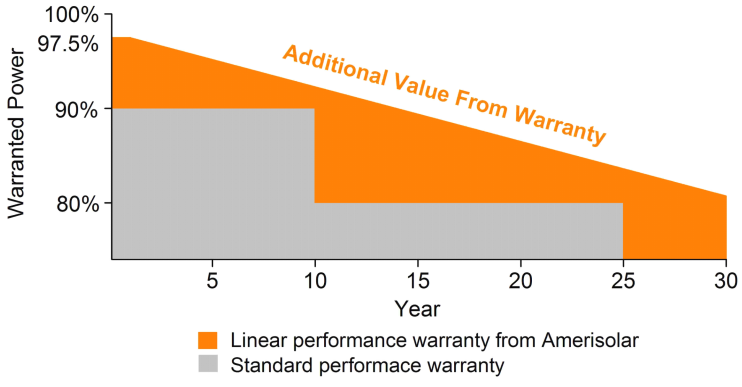
CERTIFICATIONS

- 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})	640W	645W	650W	655W	660W	665W
Open Circuit Voltage (V_{OC})	45.1V	45.3V	45.5V	45.7V	45.9V	46.1V
Short Circuit Current (I_{SC})	18.26A	18.31A	18.36A	18.41A	18.46A	18.51A
Voltage at Maximum Power (V_{mp})	37.3V	37.5V	37.7V	37.9V	38.1V	38.3V
Current at Maximum Power (I_{mp})	17.16A	17.20A	17.25A	17.29A	17.33A	17.37A
Module Efficiency (%)	20.60	20.76	20.92	21.09	21.25	21.41
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/m^2, Cell temperature 25°C, AM1.5; Tolerance of Pmax: ±3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power (P_{max})	480W	484W	488W	492W	496W	500W
Open Circuit Voltage (V_{OC})	41.5V	41.7V	41.9V	42.1V	42.3V	42.5V
Short Circuit Current (I_{SC})	14.79A	14.83A	14.87A	14.91A	14.95A	14.99A
Voltage at Maximum Power (V_{mp})	33.9V	34.1V	34.3V	34.5V	34.7V	34.9V
Current at Maximum Power (I_{mp})	14.16A	14.20A	14.23A	14.27A	14.30A	14.33A

NOCT: Irradiance 800W/m^2, Ambient temperature 20°C, Wind Speed 1 m/s

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline PERC 210*105mm
Number of cells	132(6x22)
Module dimensions	2384x1303x35mm (93.86x51.30x1.38inches)
Weight	34kg (75.0lbs)
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: 1400mm (55.12inches)
Connector	MC4 or MC4 compatible

TEMPERATURE CHARACTERISTICS

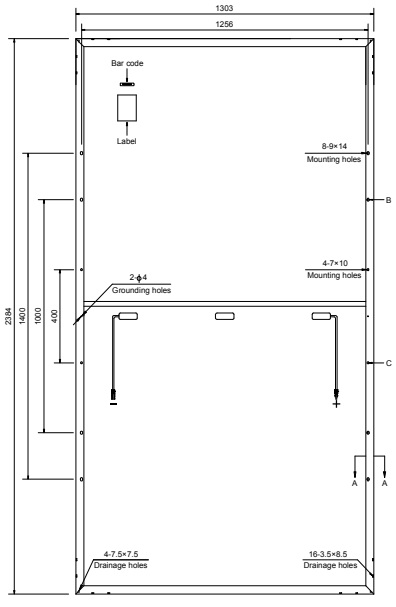
Nominal Operating Cell Temperature (NOCT)	43°C±2°C
Temperature Coefficients of P_{max}	-0.34%/°C
Temperature Coefficients of V_{OC}	-0.26%/°C
Temperature Coefficients of I_{SC}	0.05%/°C

PACKAGING

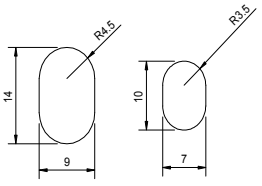
Standard packaging	31pcs/pallet
Module quantity per 20' container	124pcs
Module quantity per 40' container	527pcs (HQ)

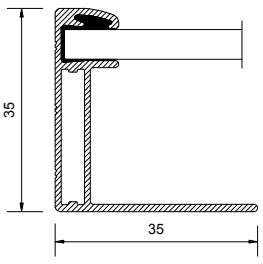
ENGINEERING DRAWINGS

Unit: mm



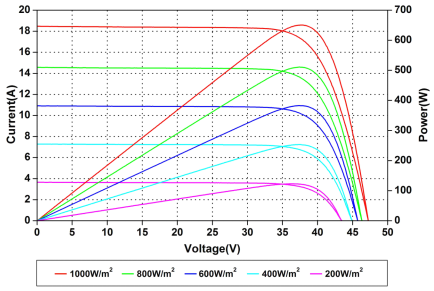
Rear View



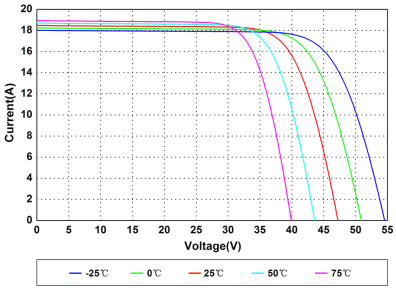


Section A-A

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.