



AS-8M132-BT

645W~665W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- More power gain up to 30% by utilizing the ambient light reflected from surrounding surfaces.
- Lower annual power degradation and higher energy yield during the module's lifetime.
- Superior performance under high temperature and low light conditions.
- High load-bearing capacity which can withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Excellent reliability and durability against extreme environmental conditions (high resistance to salt mist, ammonia, sand, acid and alkali, etc.).
- Potential induced degradation (PID) free.

CERTIFICATIONS

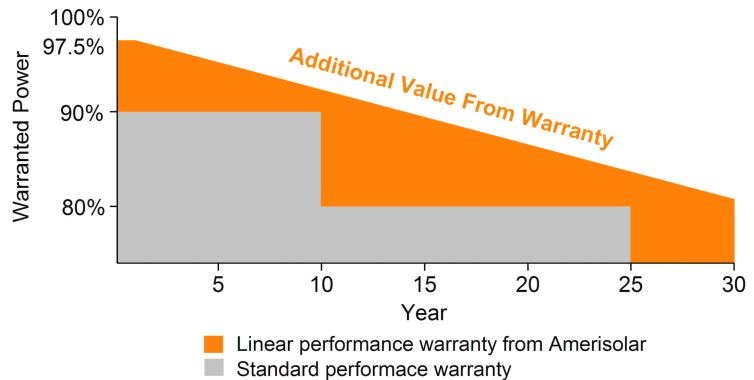


- IEC 61215, IEC 61730, CE
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

SPECIAL WARRANTY

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

Passionately
committed to
delivering innovative
energy solution



ELECTRICAL CHARACTERISTICS AT STC*

Module Type	AS-8M132-BT-645W	AS-8M132-BT-650W	AS-8M132-BT-655W	AS-8M132-BT-660W	AS-8M132-BT-665W
Maximum Power (P_{max})	645W	650W	655W	660W	665W
Open Circuit Voltage (V_{oc})	45.3V	45.5V	45.7V	45.9V	46.1V
Short Circuit Current (I_{sc})	18.31A	18.36A	18.41A	18.46A	18.51A
Voltage at Maximum Power (V_{mp})	37.5V	37.7V	37.9V	38.1V	38.3V
Current at Maximum Power (I_{mp})	17.21A	17.25A	17.29A	17.33A	17.37A
Module Efficiency (%)	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	Class C				
Maximum Series Fuse Rating	35A				

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

ELECTRICAL CHARACTERISTICS AT NOCT**

Module Type	AS-8M132-BT-645W	AS-8M132-BT-650W	AS-8M132-BT-655W	AS-8M132-BT-660W	AS-8M132-BT-665W
Maximum Power (P_{max})	484W	488W	492W	496W	500W
Open Circuit Voltage (V_{oc})	41.7V	41.9V	42.1V	42.3V	42.5V
Short Circuit Current (I_{sc})	14.83A	14.87A	14.91A	14.95A	14.99A
Voltage at Maximum Power (V_{mp})	34.1V	34.3V	34.5V	34.7V	34.9V
Current at Maximum Power (I_{mp})	14.20A	14.23A	14.27A	14.30A	14.33A

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

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-8M132-BT-650W)

Power Gain	P_{max}	V_{oc}	I_{sc}	V_{mp}	I_{mp}
10%	715W	45.5V	20.15A	37.7V	18.97A
15%	748W	45.5V	21.08A	37.7V	19.85A
20%	780W	45.5V	21.98A	37.7V	20.69A
25%	813W	45.5V	22.91A	37.7V	21.57A
30%	845W	45.5V	23.81A	37.7V	22.42A

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline bifacial
Number of cells	132(6x22)
Module dimensions	2384x1303x30mm
Weight	34kg
Front cover	3.2mm tempered glass with AR coating
Back cover	Transparent backsheet
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Cable	4mm ² , Length: Portrait: 300mm; Landscape: 1400mm
Connector	MC4 compatible

TEMPERATURE CHARACTERISTICS

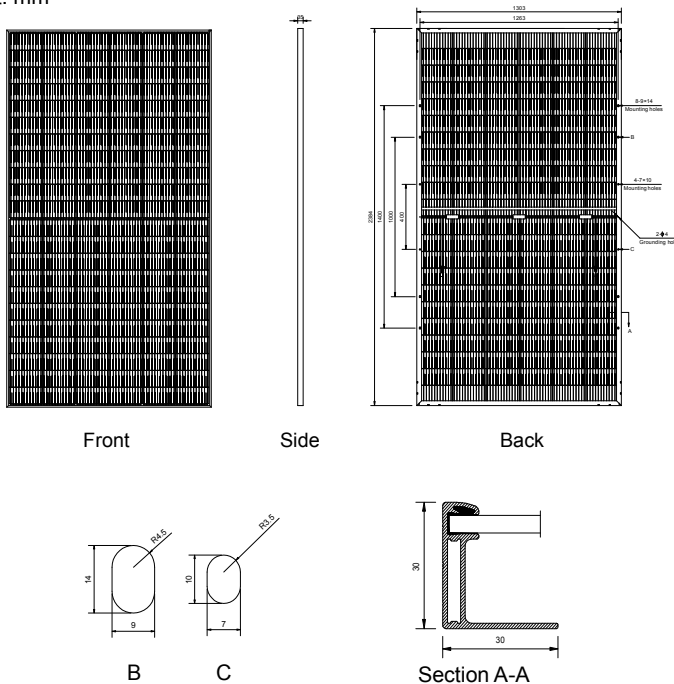
Nominal Operating Cell Temperature (NOCT)	42°C±2°C
Temperature Coefficients of P_{max}	-0.36%/°C
Temperature Coefficients of V_{oc}	-0.28%/°C
Temperature Coefficients of I_{sc}	0.05%/°C

PACKAGING

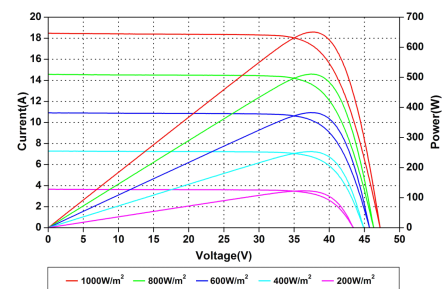
Standard packaging	36pcs/pallet
Module quantity per 20' container	144pcs
Module quantity per 40' container	648pcs(HQ)

ENGINEERING DRAWINGS

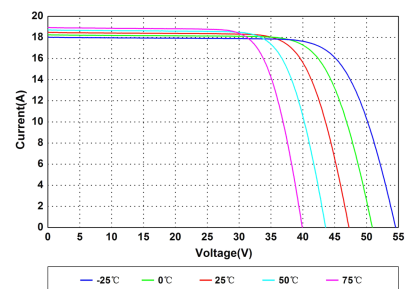
Unit: mm



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.