

AS-6M-BN

390W~410W

MONOCRYSTALLINE MODULE

ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- More power gain up to 30% by utilizing the ambient light reflected from surrounding surfaces.
- Zero LID (light induced degradation) and lower annual power degradation ensure 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

- IEC61215, IEC61730, CE
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- ISO 45001:2018: Occupational health and safety management system

SPECIAL WARRANTY

- 12 years limited product warranty.
- Limited linear power warranty: 30 years 84.5% of the nominal power output.

Passionately
committed to
delivering innovative
energy solution



ELECTRICAL CHARACTERISTICS AT STC*

Module Type	AS-6M-BN-390W	AS-6M-BN-395W	AS-6M-BN-400W	AS-6M-BN-405W	AS-6M-BN-410W
Maximum Power (P_{max})	390W	395W	400W	405W	410W
Open Circuit Voltage (V_{oc})	49.8V	50.1V	50.4V	50.7V	51.0V
Short Circuit Current (I_{sc})	10.12A	10.15A	10.18A	10.21A	10.24A
Voltage at Maximum Power (V_{mp})	40.9V	41.2V	41.5V	41.8V	42.1V
Current at Maximum Power (I_{mp})	9.54A	9.59A	9.64A	9.69A	9.74A
Module Efficiency (%)	19.92	20.17	20.43	20.68	20.94
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC				
Fire Resistance Rating	Class B				
Maximum Series Fuse Rating	20A				

*STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5; Tolerance of P_{max}: 0~+3%; Measurement Tolerance: ±3%

ELECTRICAL CHARACTERISTICS AT NOCT**

Module Type	AS-6M-BN-390W	AS-6M-BN-395W	AS-6M-BN-400W	AS-6M-BN-405W	AS-6M-BN-410W
Maximum Power (P_{max})	295W	299W	303W	307W	311W
Open Circuit Voltage (V_{oc})	45.8V	46.1V	46.4V	46.7V	47.0V
Short Circuit Current (I_{sc})	8.20A	8.22A	8.25A	8.27A	8.29A
Voltage at Maximum Power (V_{mp})	37.2V	37.5V	37.8V	38.1V	38.4V
Current at Maximum Power (I_{mp})	7.94A	7.98A	8.02A	8.06A	8.10A

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

ELECTRICAL CHARACTERISTICS WITH DIFFERENT REAR SIDE POWER GAIN (EXAMPLE: AS-6M-BN-400W)

Power Gain	P_{max}	V_{oc}	I_{sc}	V_{mp}	I_{mp}
10%	432W	50.4V	10.99A	41.6V	10.39A
15%	448W	50.5V	11.40A	41.7V	10.75A
20%	464W	50.5V	11.81A	41.7V	11.13A
25%	480W	50.6V	12.22A	41.8V	11.49A
30%	496W	50.7V	12.63A	41.9V	11.84A

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline N-type bifacial
Number of cells	72 (6x12)
Module dimensions	1974x992x6mm (Junction box is not included)
Weight	27kg
Front Glass	2.5mm Tempered glass with AR coating
Back Glass	2.5mm Tempered glass
Junction box	IP67, 3 diodes
Cable	4mm ²
Connector	MC4 compatible

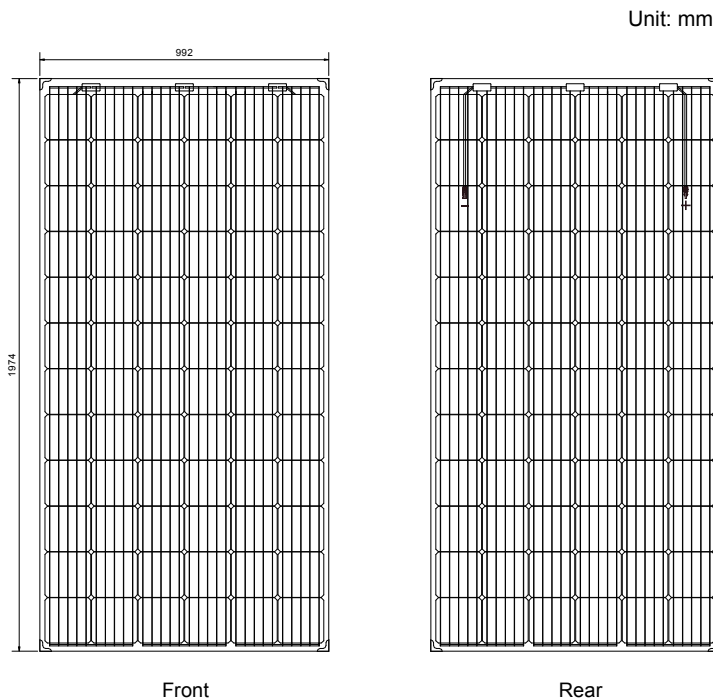
TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	42°C±2°C
Temperature Coefficients of P_{max}	-0.32%/°C
Temperature Coefficients of V_{oc}	-0.26%/°C
Temperature Coefficients of I_{sc}	0.046%/°C

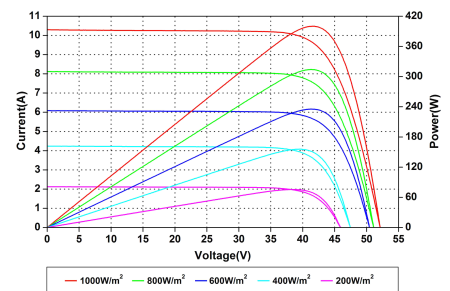
PACKAGING

Standard packaging	30pcs/pallet
Module quantity per 20' container	150pcs
Module quantity per 40' container	660pcs

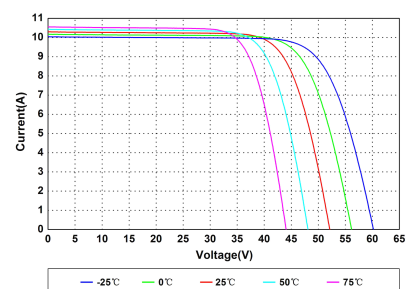
ENGINEERING DRAWINGS



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.