



AS-6M-BN Multi-Busbar BIFACIAL DOUBLE GLASS MODULE



**Passionately
committed to
delivering innovative
energy solution**

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.
- Positive power tolerance of 0 ~ +3 %.

CERTIFICATIONS

- IEC61215, IEC61730, CE
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

SPECIAL WARRANTY

- 10 years limited product warranty.
- Limited linear power warranty: 30 years 80% of the nominal power output.



ELECTRICAL CHARACTERISTICS AT STC*

Module Type	AS-6M-BN-380W		AS-6M-BN-385W		AS-6M-BN-390W		AS-6M-BN-395W		AS-6M-BN-400W	
	Front side	Rear side	Front side	Rear side	Front side	Rear side	Front side	Rear side	Front side	Rear side
Maximum Power (P_{max})	380W	323W	385W	327W	390W	332W	395W	336W	400W	340W
Open Circuit Voltage (V_{oc})	49.0V	48.3V	49.6V	48.8V	49.8V	49.0V	50.0V	49.2V	50.2V	49.4V
Short Circuit Current (I_{sc})	9.87	8.19A	9.92A	8.23A	9.94A	8.25A	9.96A	8.27A	9.99A	8.29A
Voltage at Maximum Power (V_{mp})	40.2V	41.0V	40.5V	41.3V	40.9V	41.7V	41.2V	42.0V	41.6V	42.5V
Current at Maximum Power (I_{mp})	9.44A	7.84A	9.51A	7.89A	9.54A	7.92A	9.58A	7.95A	9.62A	7.98A
Module Efficiency (%)	19.41	16.49	19.66	16.71	19.92	16.93	20.17	17.15	20.43	17.36
Operating Temperature	-40°C to +85°C									
Maximum System Voltage	1500V (IEC) / 1000V(UL)									
Fire Resistance Rating	Class A									
Maximum Series Fuse Rating	15A									

*STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

ELECTRICAL CHARACTERISTICS AT NOCT**

Testing Condition	Front side		Rear side		Front side		Rear side		Front side		Rear side	
	Front side	Rear side	Front side	Rear side	Front side	Rear side	Front side	Rear side	Front side	Rear side	Front side	Rear side
Maximum Power (P_{max})	287W	244W	291W	248W	295W	251W	299W	254W	303W	257W	303W	257W
Open Circuit Voltage (V_{oc})	46.5V	45.8V	47.1V	46.4V	47.2V	46.5V	47.4V	46.7V	47.6V	46.9V	47.6V	46.9V
Short Circuit Current (I_{sc})	7.96A	6.60A	8.00A	6.64A	8.01A	6.65A	8.03A	6.67A	8.05A	6.69A	8.05A	6.69A
Voltage at Maximum Power (V_{mp})	37.8V	38.7V	38.0V	38.9V	38.4V	39.3V	38.7V	39.6V	39.0V	40.0V	39.0V	40.0V
Current at Maximum Power (I_{mp})	7.61A	6.32A	7.67A	6.36A	7.69A	6.38A	7.72A	6.41A	7.76A	6.44A	7.76A	6.44A

**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-390W)

Power Gain	P_{max}	V_{oc}	I_{sc}	V_{mp}	I_{mp}
10%	423W	50.0V	10.76A	41.1V	10.30A
15%	440W	50.1V	11.18A	41.2V	10.69A
20%	456W	50.2V	11.59A	41.2V	11.07A
25%	473W	50.3V	12.00A	41.3V	11.44A
30%	489W	50.4V	12.41A	41.4V	11.82A

MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline N-type bifacial 157.35x156.35mm
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

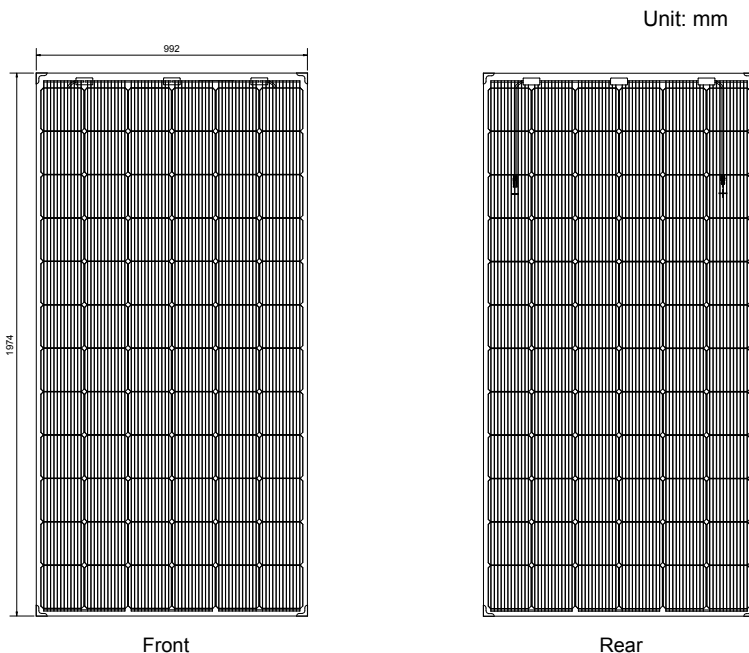
TEMPERATURE CHARACTERISTICS

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

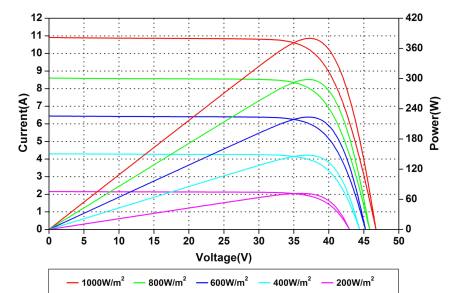
Standard packaging	30pcs/pallet
Module quantity per 20' container	150pcs
Module quantity per 40' container	660pcs

ENGINEERING DRAWINGS

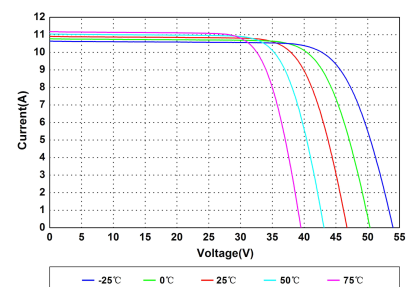


Specifications in this datasheet are subject to change without prior notice.

IV CURVES



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures