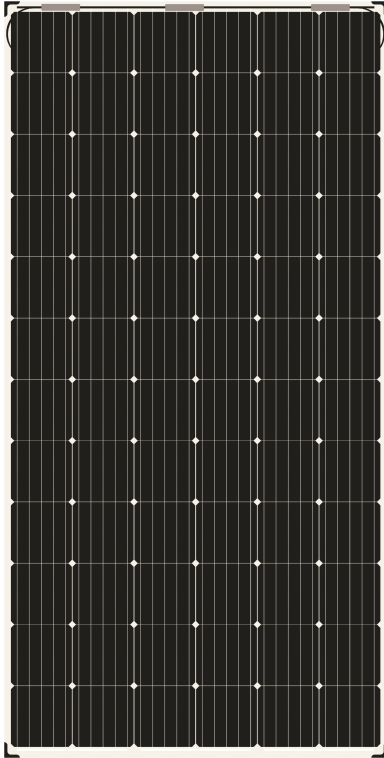




# AS-6M-BN BIFACIAL

## 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 \*

Nominal Power ( $P_{max}$ )	370W	375W	380W	385W	390W	395W	400W	405W	410W
Open Circuit Voltage ( $V_{oc}$ )	45.6V	45.8V	46.0V	46.2V	46.4V	46.6V	46.8V	47.0V	47.2V
Short Circuit Current ( $I_{sc}$ )	10.60A	10.68A	10.76A	10.84A	10.92A	11.00A	11.08A	11.16A	11.24A
Voltage at Nominal Power ( $V_{mp}$ )	37.1V	37.2V	37.3V	37.4V	37.5V	37.6V	37.7V	37.8V	37.9V
Current at Nominal Power ( $I_{mp}$ )	9.98A	10.09A	10.19A	10.30A	10.41A	10.51A	10.62A	10.72A	10.82A
Module Efficiency (%)	18.9	19.2	19.4	19.7	19.9	20.2	20.4	20.7	20.9
Operating Temperature	-40°C to +85°C								
Maximum System Voltage	1500V DC								
Fire Resistance Rating	Class B (IEC61730)								
Maximum Series Fuse Rating	20A								

\*Test condition: Irradiance (1.0±0.1 BiFi) 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5

## ELECTRICAL CHARACTERISTICS AT NOCT\*\*

Nominal Power ( $P_{max}$ )	275W	278W	282W	286W	289W	293W	297W	301W	304W
Open Circuit Voltage ( $V_{oc}$ )	42.5V	42.7V	42.9V	43.1V	43.3V	43.5V	43.7V	43.9V	44.1V
Short Circuit Current ( $I_{sc}$ )	8.59A	8.65A	8.72A	8.78A	8.85A	8.91A	8.97A	9.04A	9.10A
Voltage at Nominal Power ( $V_{mp}$ )	34.2V	34.3V	34.4V	34.5V	34.6V	34.7V	34.8V	34.9V	35.0V
Current at Nominal Power ( $I_{mp}$ )	8.04A	8.11A	8.20A	8.29A	8.36A	8.45A	8.54A	8.63A	8.69A

\*\*NOCT: Irradiance (1.0±0.1 BiFi) 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1 m/s

## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline N-type bifacial 156.75x156.75mm
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 <sup>2</sup>
Connector	MC4 compatible

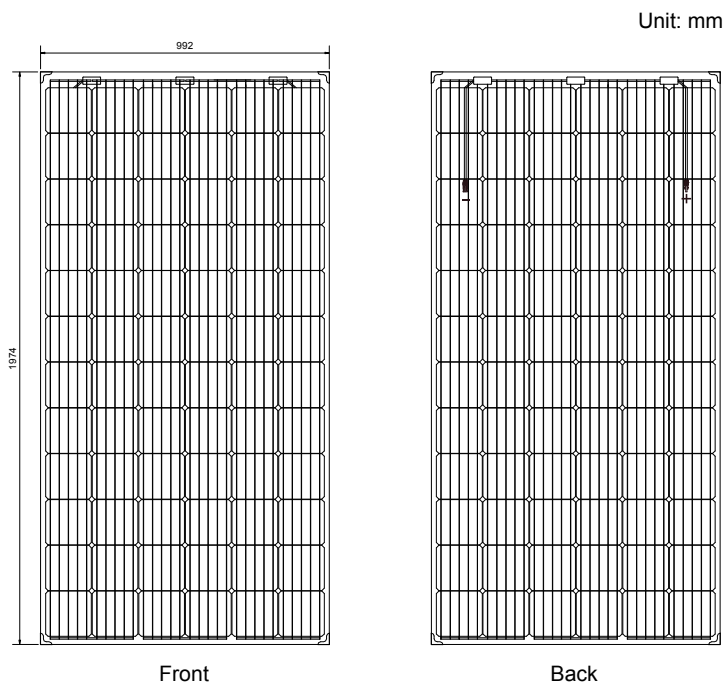
## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of $P_{max}$	-0.38%/°C
Temperature Coefficients of $V_{oc}$	-0.30%/°C
Temperature Coefficients of $I_{sc}$	0.048%/°C

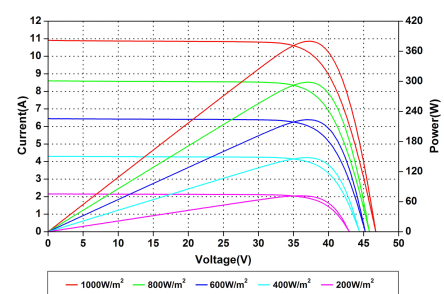
## PACKAGING

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

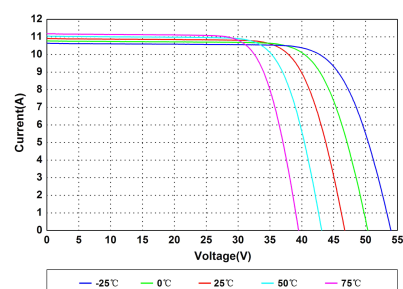
## ENGINEERING DRAWINGS



## 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.