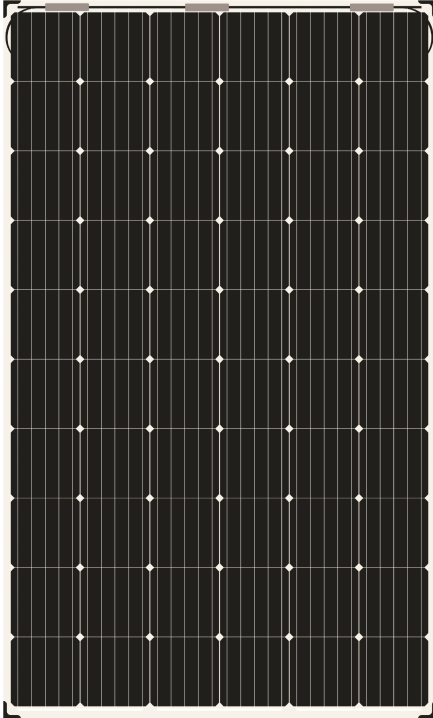




# AS-6M30-BN BIFACIAL

## DOUBLE GLASS 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.
- Positive power tolerance of 0 ~ +3 %.

**Passionately  
committed to  
delivering innovative  
energy solution**

### CERTIFICATIONS

- IEC61215, IEC61730, CE
- ISO9001:2008: Quality management system
- ISO14001:2004: 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 ( $P_{max}$ )	310W	315W	320W	325W	330W	335W	340W
Open Circuit Voltage ( $V_{oc}$ )	38.0V	38.2V	38.4V	38.6V	38.8V	39.0V	39.2V
Short Circuit Current ( $I_{sc}$ )	10.60A	10.68A	10.76A	10.84A	10.92A	11.00A	11.08A
Voltage at Nominal Power ( $V_{mp}$ )	31.0V	31.2V	31.4V	31.6V	31.8V	32.0V	32.4V
Current at Nominal Power ( $I_{mp}$ )	10.00A	10.10A	10.20A	10.29A	10.38A	10.47A	10.56A
Module Efficiency (%)	18.85	19.15	19.46	19.76	20.06	20.37	20.67
Operating Temperature	-40°C to +85°C						
Maximum System Voltage	1500V DC						
Fire Resistance Rating	Class B (IEC61730)						
Maximum Series Fuse Rating	15A						

\*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 ( $P_{max}$ )	230W	234W	238W	242W	245W	249W	253W
Open Circuit Voltage ( $V_{oc}$ )	35.0V	35.2V	35.4V	35.6V	35.8V	36.0V	36.2V
Short Circuit Current ( $I_{sc}$ )	8.59A	8.65A	8.72A	8.78A	8.85A	8.91A	8.97A
Voltage at Nominal Power ( $V_{mp}$ )	28.2V	28.4V	28.6V	28.8V	29.0V	29.2V	29.4V
Current at Nominal Power ( $I_{mp}$ )	8.16A	8.24A	8.32A	8.40A	8.36A	8.45A	8.61A

\*\*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	60 (6x10)
Module dimensions	1658x992x6mm (Junction box is not included)
Weight	22.5kg
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

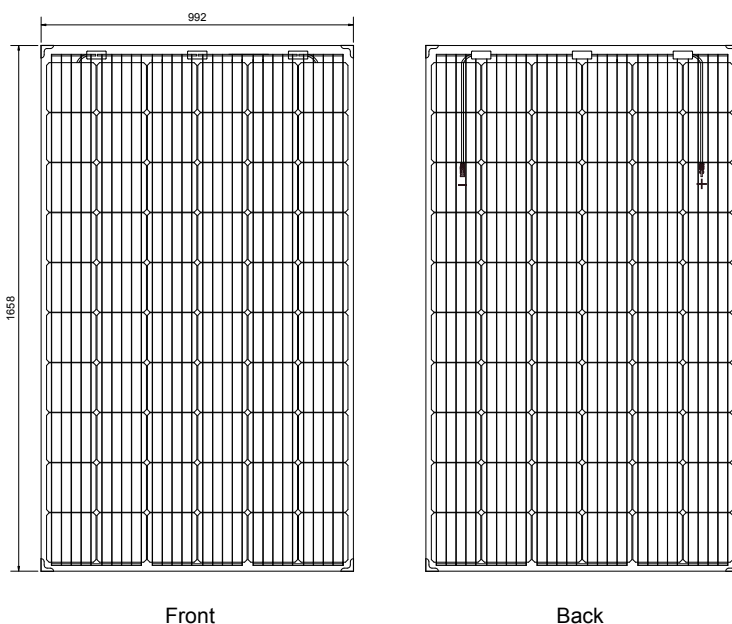
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of $P_{max}$	-0.38%/°C
Temperature Coefficients of $V_{oc}$	-0.30%/°C
Temperature Coefficients of $I_{sc}$	0.048%/°C

## PACKAGING

Standard packaging	33pcs/pallet
Module quantity per 20' container	198pcs
Module quantity per 40' container	429pcs(GP)/858pcs(HQ)

## ENGINEERING DRAWINGS

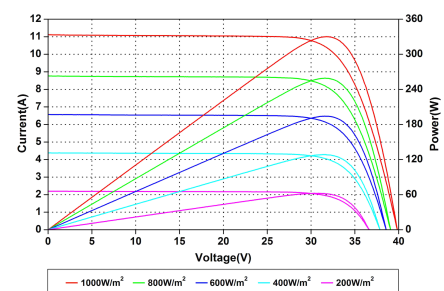
Unit: mm



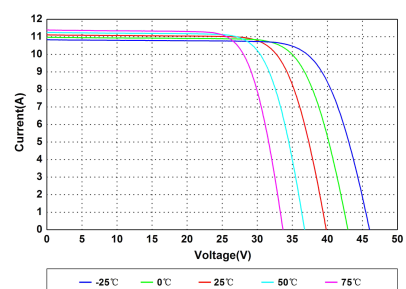
Front

Back

## 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.