



# AS-6M30S Black

## MONOCRYSTALLINE MODULE



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 19.17% by using high efficient solar cells and advanced manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- High reliability against extreme environmental conditions (passing salt mist, ammonia and hail tests).
- Potential induced degradation (PID) resistance.
- Positive power tolerance of 0 ~ +5W.

**Passionately**  
**committed to**  
**delivering innovative**  
**energy solution**

### CERTIFICATIONS

- IEC 61215, IEC 61730, IEC 62716, IEC 61701, CE, CQC
- ISO9001:2015: Quality management system
- ISO14001:2015: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

### SPECIAL WARRANTY

- 12 years limited product warranty.
- Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.



## ELECTRICAL CHARACTERISTICS AT STC

Maximum Power ( $P_{max}$ )	300W	305W	310W	315W	320W
Open Circuit Voltage ( $V_{OC}$ )	39.6V	39.8V	40.0V	40.2V	40.4V
Short Circuit Current ( $I_{SC}$ )	9.70A	9.79A	9.88A	9.97A	10.06A
Voltage at Maximum Power ( $V_{mp}$ )	32.4V	32.6V	32.8V	33.0V	33.2V
Current at Maximum Power ( $I_{mp}$ )	9.26A	9.36A	9.46A	9.55A	9.64A
Module Efficiency (%)	17.97	18.27	18.57	18.87	19.17
Operating Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC				
Fire Resistance Rating	Type 2				
Maximum Series Fuse Rating	20A				

STC: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, AM1.5

## ELECTRICAL CHARACTERISTICS AT NOCT

Maximum Power ( $P_{max}$ )	222W	226W	230W	234W	238W
Open Circuit Voltage ( $V_{OC}$ )	36.5V	36.7V	36.9V	37.1V	37.3V
Short Circuit Current ( $I_{SC}$ )	7.86A	7.93A	8.00A	8.08A	8.15A
Voltage at Maximum Power ( $V_{mp}$ )	29.6V	29.8V	30.0V	30.2V	30.4V
Current at Maximum Power ( $I_{mp}$ )	7.50A	7.59A	7.67A	7.75A	7.83A

NOCT: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Wind Speed 1 m/s

## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline 6inch
Number of cells	60 (6x10)
Module dimensions	1666x1002x35mm (65.59x39.45x1.38inches)
Weight	19kg (41.9lbs)
Front cover	3.2mm (0.13inches) tempered glass with AR coating
Frame	Anodized aluminum alloy
Junction box	IP67, 3 diodes
Cable	4mm <sup>2</sup> (0.006inches <sup>2</sup> ), 900mm (35.43inches)
Connector	MC4 or MC4 compatible

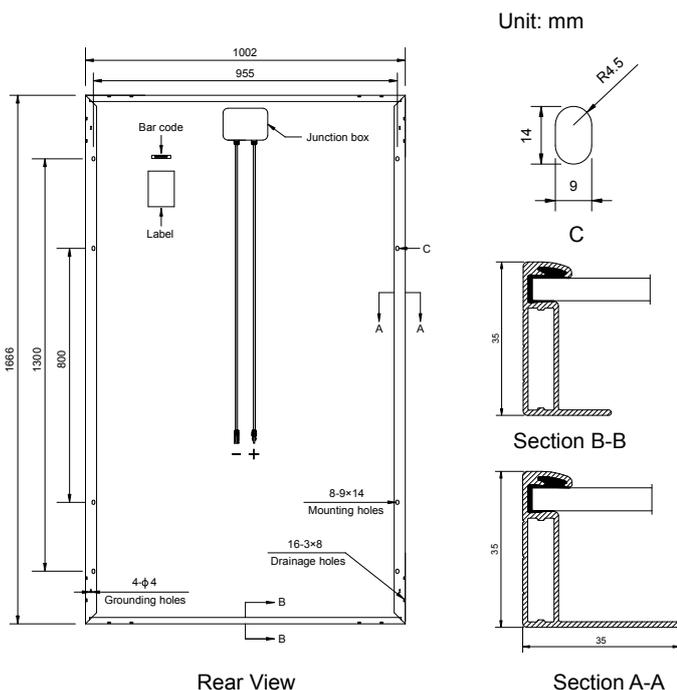
## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of $P_{max}$	-0.37%/°C
Temperature Coefficients of $V_{OC}$	-0.28%/°C
Temperature Coefficients of $I_{SC}$	0.04%/°C

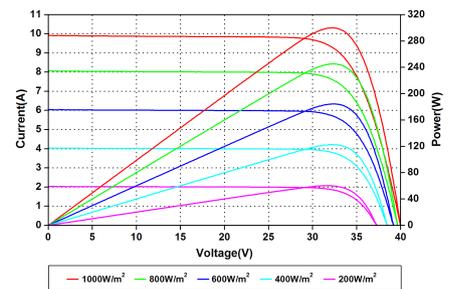
## PACKAGING

Standard packaging	31pcs/pallet
Module quantity per 20' container	372pcs
Module quantity per 40' container	868pcs(GP)/952pcs(HQ)

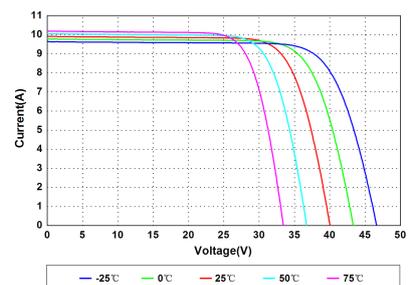
## ENGINEERING DRAWINGS



## 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.