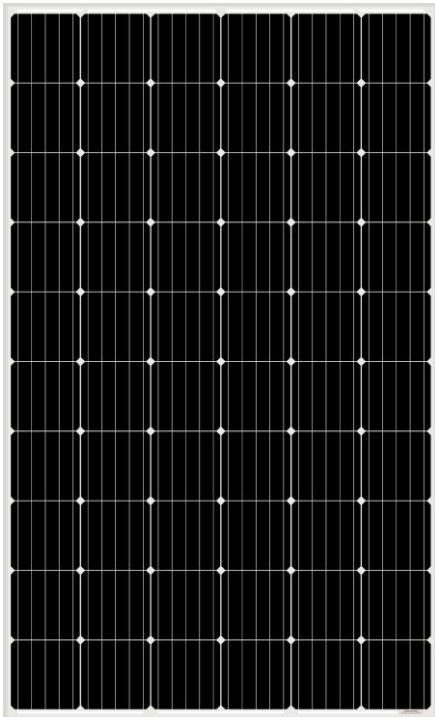




# AS-6M30-300W

## MONOCRYSTALLINE MODULE



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- High module conversion efficiency up to 18.75% 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.
- Power tolerance:  $\pm 3\%$

### CERTIFICATIONS

- IEC61215, IEC61730, CE, CQC, CGC, CEC(Australia), ETL(USA), JET(Japan), J-PEC(Japan), Kemco(South Korea), KS(South Korea), MCS(UK), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), InMetro(Brazil), TSE(Turkey)
- ISO9001:2008: Quality management system
- ISO14001:2004: 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.

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delivering innovative  
energy solution



## ELECTRICAL CHARACTERISTICS AT STC

Nominal Power ( $P_{max}$ )	275W	280W	285W	290W	295W	300W	305W
Open Circuit Voltage ( $V_{OC}$ )	38.6V	38.8V	39.0V	39.2V	39.4V	39.6V	39.8V
Short Circuit Current ( $I_{SC}$ )	9.29A	9.37A	9.45A	9.53A	9.62A	9.70A	9.79A
Voltage at Nominal Power ( $V_{mp}$ )	31.4V	31.6V	31.8V	32.0V	32.2V	32.4V	32.6V
Current at Nominal Power ( $I_{mp}$ )	8.76A	8.87A	8.97A	9.07A	9.17A	9.26A	9.36A
Module Efficiency (%)	16.90	17.21	17.52	17.83	18.13	18.44	18.75
Operating Temperature	-40°C to +85°C						
Maximum System Voltage	1500V DC						
Fire Resistance Rating	Class C						
Maximum Series Fuse Rating	15A						

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

## ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power ( $P_{max}$ )	207W	211W	215W	218W	222W	226W
Open Circuit Voltage ( $V_{OC}$ )	35.7V	35.9V	36.1V	36.3V	36.5V	36.7V
Short Circuit Current ( $I_{SC}$ )	7.59A	7.65A	7.72A	7.79A	7.86A	7.93A
Voltage at Nominal Power ( $V_{mp}$ )	28.8V	29.0V	29.2V	29.4V	29.6V	29.8V
Current at Nominal Power ( $I_{mp}$ )	7.19A	7.28A	7.37A	7.42A	7.50A	7.59A

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

## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline 5BB 156.75x156.75mm (6x6inches)
Number of cells	60 (6x10)
Dimensions	1640x992x35mm (64.57x39.06x1.38inches)
Weight	18.5kg (40.8lbs)
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> ), 1000mm (39.37inches)
Connector	PV-ZH202B(Manufacturer: Zhonghuan Sunter)

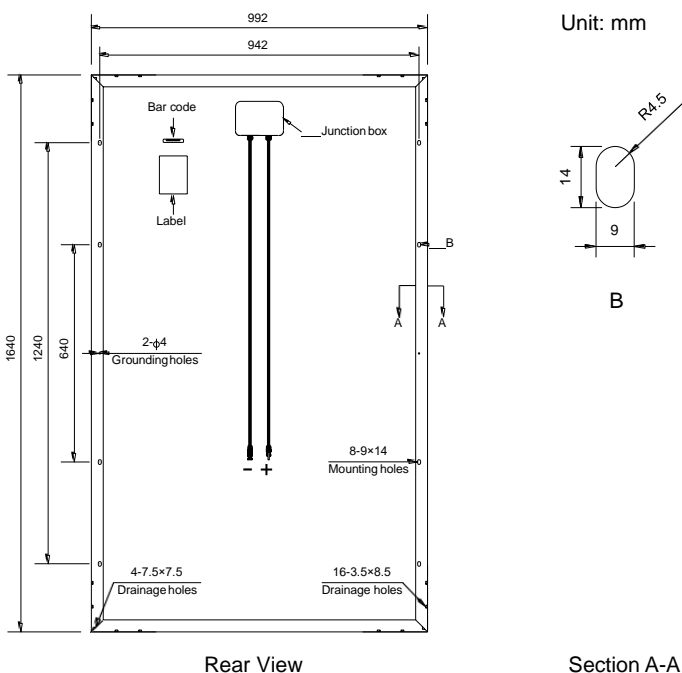
## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of $P_{max}$	-0.39%/°C
Temperature Coefficients of $V_{OC}$	-0.29%/°C
Temperature Coefficients of $I_{SC}$	0.052%/°C

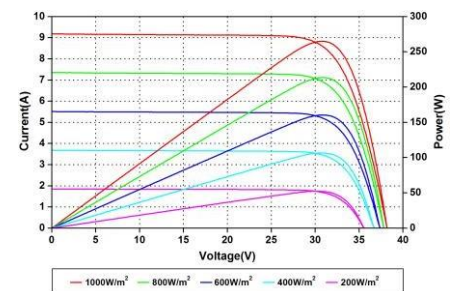
## PACKAGING

Standard packaging	30pcs/pallet
Module quantity per 20' container	360pcs
Module quantity per 40' container	840pcs(GP)/924pcs(HQ)

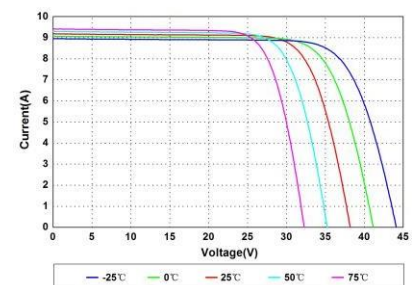
## ENGINEERING DRAWINGS



## 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.