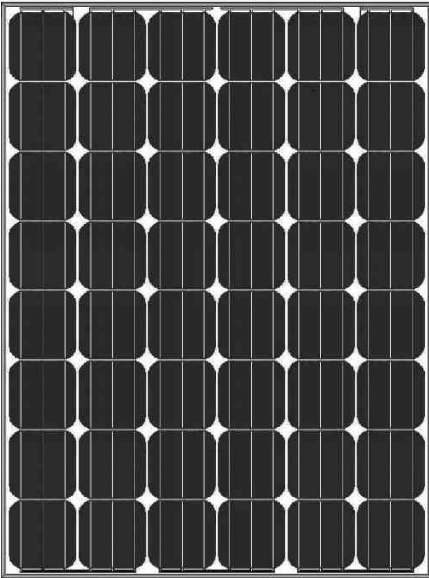




# AS-6M24

## MONOCRYSTALLINE MODULE



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

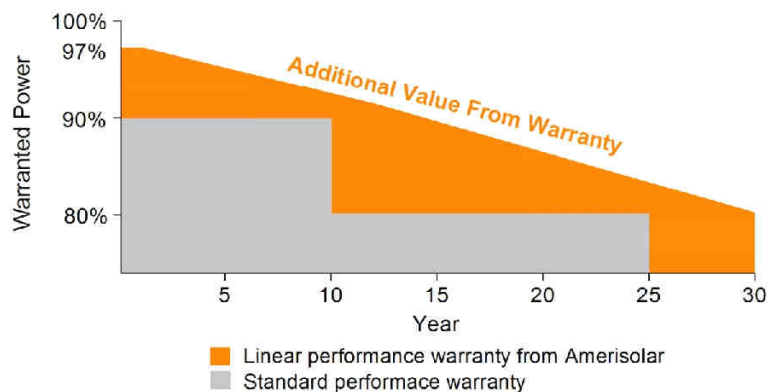
- High module conversion efficiency up to 16.85% through advanced manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 ~ +3 %.
- High ammonia and salt mist resistance.
- Potential induced degradation (PID) resistance.

### CERTIFICATIONS

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, ETL(USA), JET(Japan), J-PEC(Japan), MCS(UK), CEC(Australia), FSEC(FL-USA), CSI Eligible(CA-USA), Israel Electric(Israel), Kemco(South Korea), 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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energy solution



## ELECTRICAL CHARACTERISTICS AT STC

Nominal Power ( $P_{max}$ )	190W	195W	200W	205W	210W	215W	220W
Open Circuit Voltage ( $V_{OC}$ )	30.2V	30.3V	30.4V	30.5V	30.6V	30.7V	30.8V
Short Circuit Current ( $I_{SC}$ )	8.45A	8.58A	8.70A	8.82A	8.94A	9.05A	9.17A
Voltage at Nominal Power ( $V_{mp}$ )	24.3V	24.4V	24.5V	24.6V	24.7V	24.8V	24.9V
Current at Nominal Power ( $I_{mp}$ )	7.82A	8.00A	8.17A	8.34A	8.51A	8.67A	8.84A
Module Efficiency (%)	14.55	14.94	15.32	15.70	16.09	16.47	16.85
Operating Temperature	-40°C to +85°C						
Maximum System Voltage	1000V DC						
Fire Resistance Rating	Type 1(UL1703)/Class C(IEC61730)						
Maximum Series Fuse Rating	15A						

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

## ELECTRICAL CHARACTERISTICS AT NOCT

Nominal Power ( $P_{max}$ )	140W	144W	147W	151W	155W	158W	162W
Open Circuit Voltage ( $V_{OC}$ )	27.8V	27.9V	28.0V	28.1V	28.2V	28.3V	28.4V
Short Circuit Current ( $I_{SC}$ )	6.87A	6.97A	7.06A	7.17A	7.30A	7.39A	7.45A
Voltage at Nominal Power ( $V_{mp}$ )	22.1V	22.2V	22.3V	22.4V	22.5V	22.6V	22.7V
Current at Nominal Power ( $I_{mp}$ )	6.34A	6.49A	6.60A	6.74A	6.89A	7.00A	7.14A

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

## MECHANICAL CHARACTERISTICS

Cell type	Monocrystalline 156x156mm (6x6inches)
Number of cells	48 (6x8)
Module dimensions	1316x992x35mm (51.81x39.06x1.38inches)
Weight	15kg (33.1lbs)
Front cover	3.2mm (0.13inches) low-iron tempered glass
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

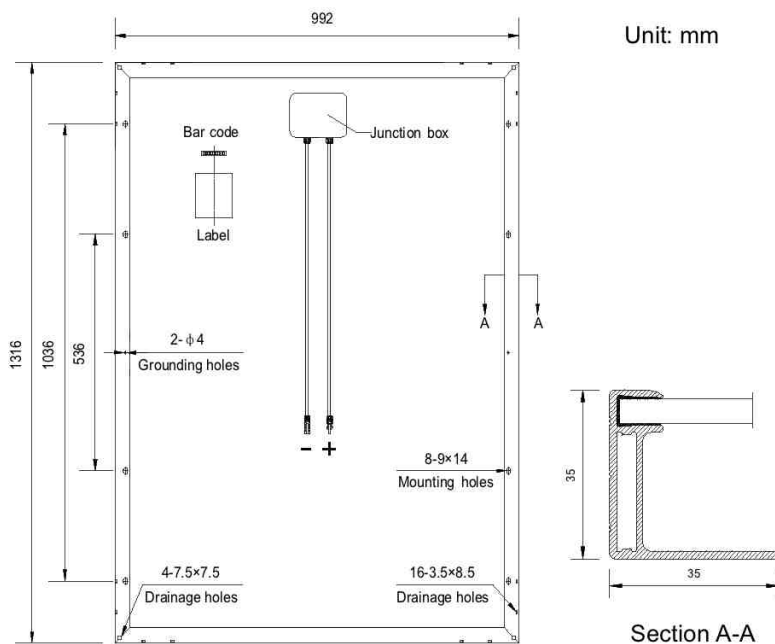
## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of $P_{max}$	-0.43%/°C
Temperature Coefficients of $V_{OC}$	-0.33%/°C
Temperature Coefficients of $I_{SC}$	0.056%/°C

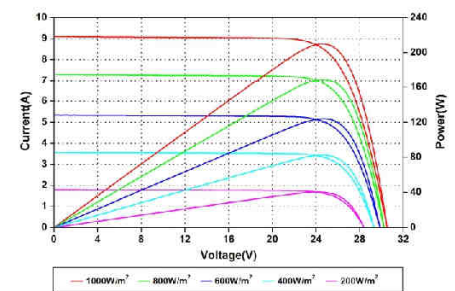
## PACKAGING

Standard packaging	29pcs/pallet
Module quantity per 20' container	464 pcs
Module quantity per 40' container	928 pcs

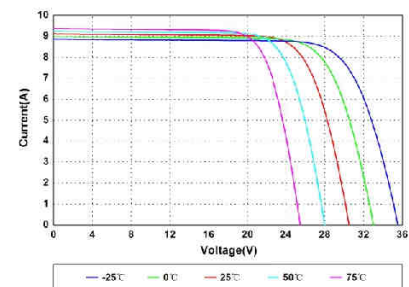
## ENGINEERING DRAWINGS



## 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.