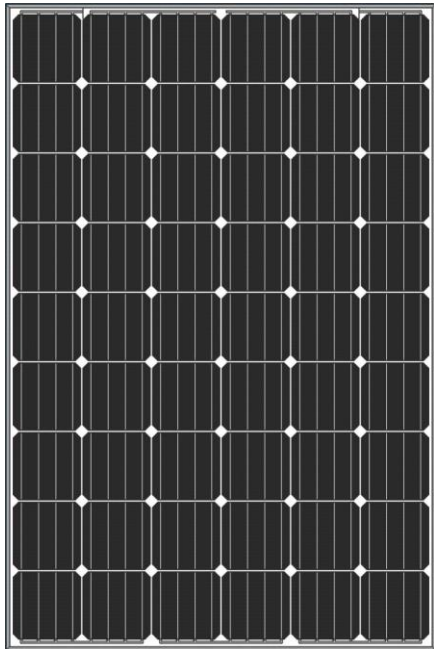




# AS-6M27

## MONOCRYSTALLINE MODULE



### ADVANCED PERFORMANCE & PROVEN ADVANTAGES

- ☑ High module conversion efficiency up to 17.71% 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 ~ +3 %.

### CERTIFICATIONS

- ☑ IEC61215, IEC61730, IEC62716, IEC61701, CE, CQC, CGC, ETL(USA), JET(Japan), J-PEC(Japan), Kemco(South Korea), KS(South Korea), MCS(UK), CEC(Australia), 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

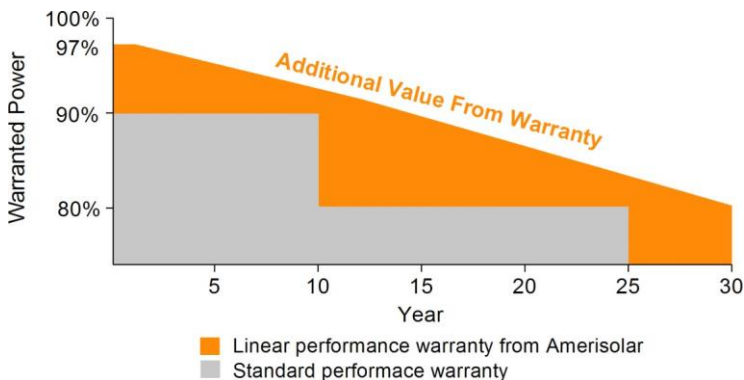
- ☑ 12 years limited product warranty.
- ☑ Limited linear power warranty: 12 years 91.2% of the nominal power output, 30 years 80.6% of the nominal power output.

Passionately

committed to

delivering innovative

energy solution



## ELECTRICAL CHARACTERISTICS AT STC

Nominal Power ( $P_{max}$ )	230W	235W	240W	245W	250W	255W	260W
Open Circuit Voltage ( $V_{oc}$ )	34.1V	34.2V	34.3V	34.4V	34.5V	34.6V	34.7V
Short Circuit Current ( $I_{sc}$ )	8.80A	8.93A	9.07A	9.20A	9.33A	9.47A	9.60A
Voltage at Nominal Power ( $V_{mp}$ )	27.7V	27.8V	27.9V	28.0V	28.1V	28.2V	28.3V
Current at Nominal Power ( $I_{mp}$ )	8.31A	8.46A	8.61A	8.75A	8.90A	9.05A	9.19A
Module Efficiency (%)	15.67	16.01	16.35	16.69	17.03	17.37	17.71
Operating Temperature	-40°C to +85°C						
Maximum System Voltage	1000V DC						
Fire Resistance Rating	Type 1(in accordance with 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 ( $P_{max}$ )	170W	174W	178W	181W	185W	189W	192W
Open Circuit Voltage ( $V_{oc}$ )	31.4V	31.5V	31.6V	31.7V	31.8V	31.9V	32.0V
Short Circuit Current ( $I_{sc}$ )	7.13A	7.23A	7.35A	7.45A	7.56A	7.67A	7.78A
Voltage at Nominal Power ( $V_{mp}$ )	25.2V	25.3V	25.4V	25.5V	25.6V	25.7V	25.8V
Current at Nominal Power ( $I_{mp}$ )	6.75A	6.88A	7.01A	7.10A	7.23A	7.36A	7.45A

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	54 (6x9)
Module dimensions	1480x992x35mm (58.27x39.06x1.38inches)
Weight	16.5kg(36.4lbs)
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

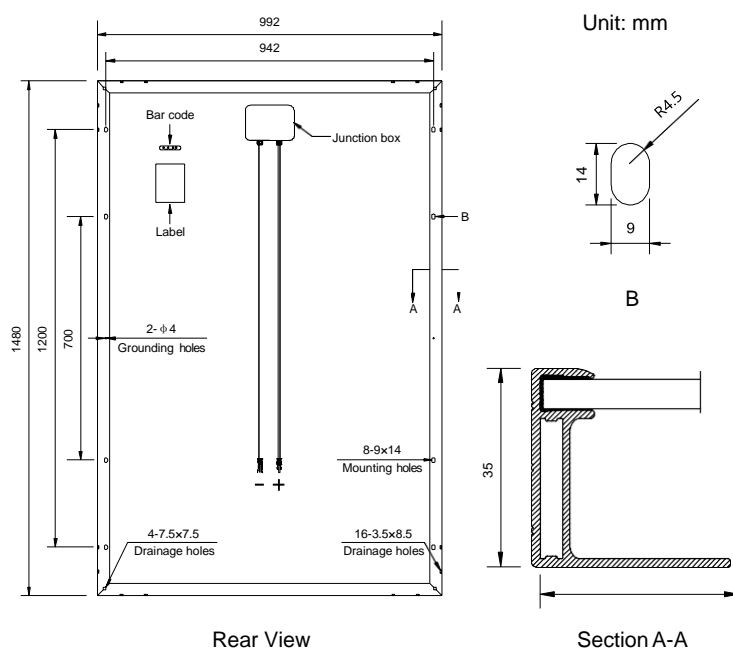
## TEMPERATURE CHARACTERISTICS

Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of $P_{max}$	-0.41%/°C
Temperature Coefficients of $V_{oc}$	-0.31%/°C
Temperature Coefficients of $I_{sc}$	0.05%/°C

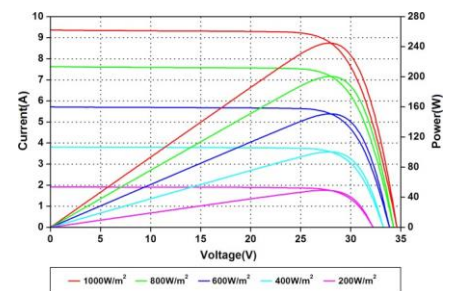
## PACKAGING

Standard packaging	29pcs/pallet
Module quantity per 20' container	406pcs
Module quantity per 40' container	870pcs(GP)/930pcs(HQ)

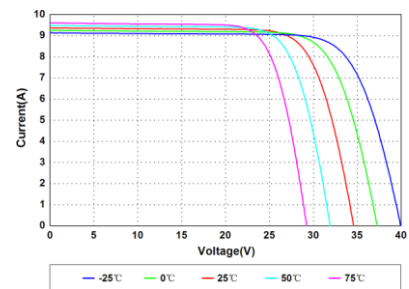
## ENGINEERING DRAWINGS



## 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.