



New Energy

New World

Worldwide Energy and Manufacturing USA Co., Limited

AS-6M27

Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 30-year warranty, AS-6M27 offers higher-powered, more reliable performance for both on-grid and off-grid solar projects.

Key Features

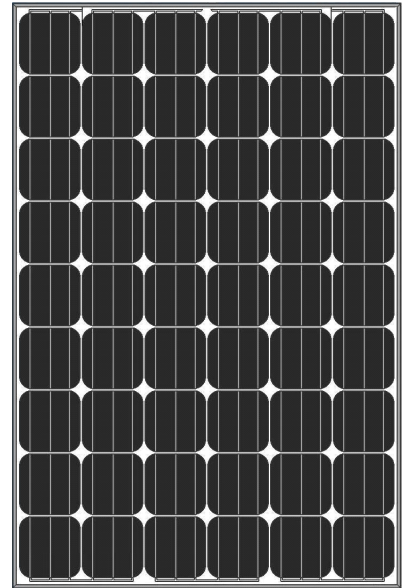
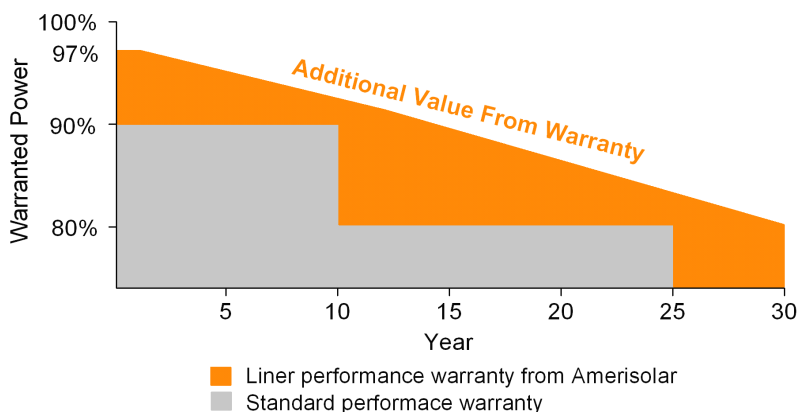
- High module conversion efficiency up to 16.06% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 ~ +3 %.
- High ammonia and salt mist resistance.

Quality Certificates

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, MCS, CEC, Israel Electric, Kemco
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

Special Warranties

- 12 year limited product warranty.
- Limited 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

www.weamerisolar.com

Electrical Characteristics

Electrical parameters at STC						
Nominal Power (P_{max})	215W	220W	225W	230W	235W	240W
Open Circuit Voltage (V_{oc})	33.3V	33.4V	33.5V	33.6V	33.7V	33.7V
Short Circuit Current (I_{sc})	8.55A	8.65A	8.76A	8.86A	8.96A	9.05A
Voltage at Nominal Power (V_{mp})	27.0V	27.1V	27.2V	27.3V	27.4V	27.5V
Current at Nominal Power (I_{mp})	7.97A	8.12A	8.28A	8.43A	8.58A	8.73A
Module Efficiency (%)	14.39	14.73	15.06	15.39	15.73	16.06

STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5

Electrical parameters at NOCT						
Nominal Power (P_{max})	157W	161W	164W	168W	172W	175W
Open Circuit Voltage (V_{oc})	30.6V	30.7V	30.8V	30.9V	31.0V	31.0V
Short Circuit Current (I_{sc})	6.93A	7.01A	7.10A	7.18A	7.26A	7.33A
Voltage at Nominal Power (V_{mp})	24.6V	24.7V	24.8V	24.8V	24.9V	25.0V
Current at Nominal Power (I_{mp})	6.39A	6.52A	6.62A	6.78A	6.91A	7.00A

NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1 m/s

Mechanical Characteristics

Cell type	Monocrystalline 156x156mm
Number of cells	54 (6x9)
Module dimension	1494x1000x40mm
Weight	18kg
Front cover	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 6 diodes
Cable	4mm ² , 900mm
Connector	MC4 or MC4 compatible
Standard packaging	26pcs/pallet
Module quantity per container	780pcs/40'HQ

Temperature Characteristics

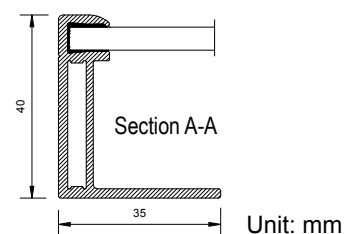
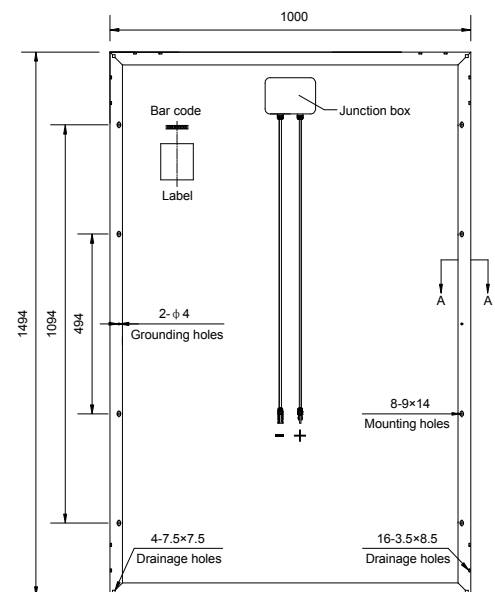
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.33%/°C
Temperature Coefficients of I_{sc}	0.056%/°C

Maximum Ratings

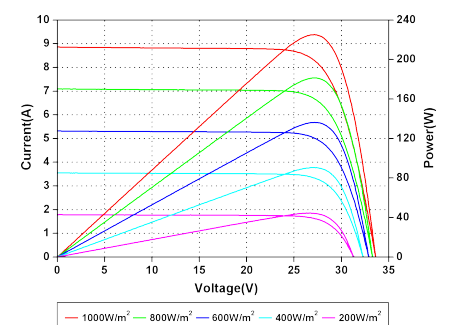
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	15A

Specifications in this datasheet are subject to change without prior notice.

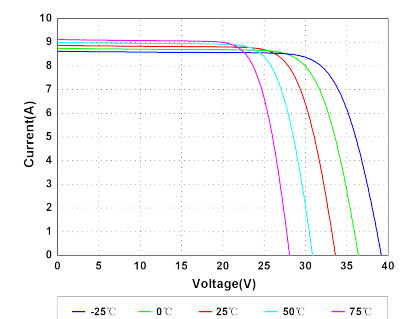
Drawings



I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

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