



New Energy

New World

Worldwide Energy and Manufacturing USA Co., Limited

AS-5M24

Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 30-year warranty, AS-5M24 offers high-powered, reliable performance for both on-grid and off-grid solar projects.

Key Features

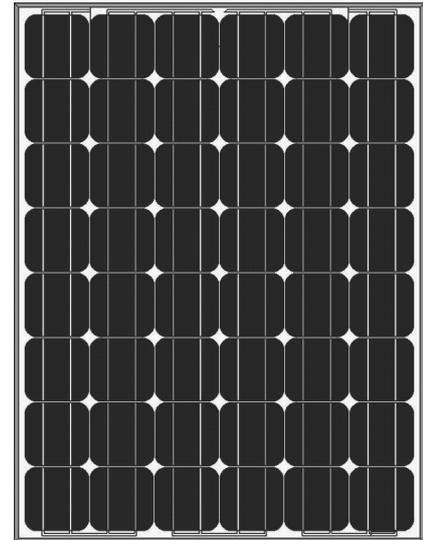
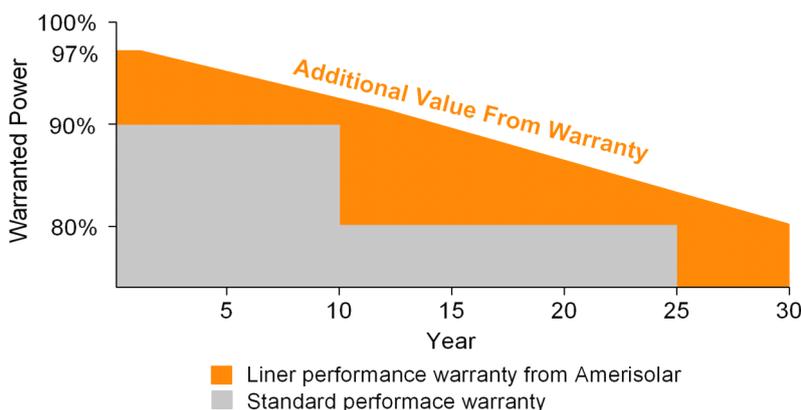
- High module conversion efficiency up to 16.19% through superior manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive 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})	120W	125W	130W	135W	140W
Open Circuit Voltage (V_{oc})	29.8V	30.0V	30.1V	30.2V	30.4V
Short Circuit Current (I_{sc})	5.40A	5.52A	5.64A	5.78A	5.92A
Voltage at Nominal Power (V_{mp})	24.0V	24.2V	24.4V	24.6V	24.8V
Current at Nominal Power (I_{mp})	5.00A	5.17A	5.33A	5.49A	5.65A
Module Efficiency (%)	13.88	14.46	15.04	15.61	16.19

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

Electrical parameters at NOCT					
Nominal Power (P_{max})	88W	91W	95W	99W	102W
Open Circuit Voltage (V_{oc})	27.4V	27.6V	27.7V	27.8V	28.0V
Short Circuit Current (I_{sc})	4.37A	4.47A	4.57A	4.68A	4.80A
Voltage at Nominal Power (V_{mp})	21.8V	22.0V	22.2V	22.4V	22.6V
Current at Nominal Power (I_{mp})	4.04A	4.14A	4.28A	4.42A	4.52A

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

Mechanical Characteristics

Cell type	Monocrystalline 125x125mm
Number of cells	48(6x8)
Module dimension	1070x808x35mm
Weight	10kg
Front cover	3.2mm low-iron tempered glass
Frame	Anodized aluminum alloy
Junction box	IP67, 3 diodes
Cable	4mm ² , 900mm
Connector	MC4 or MC4 compatible
Standard packaging	28pcs/pallet
Module quantity per container	560pcs/20'GP, 1120pcs/40'GP

Temperature Characteristics

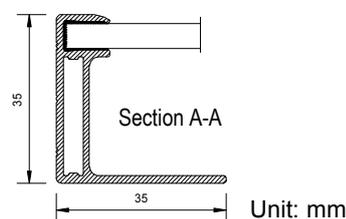
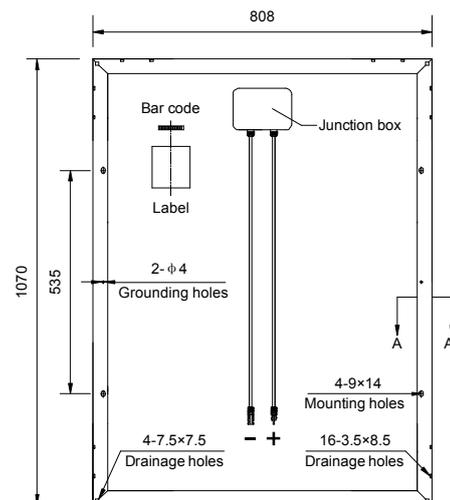
Nominal Operating Cell Temperature (NOCT)	45°C±2°C
Temperature Coefficients of P_{max}	-0.43%/°C
Temperature Coefficients of V_{oc}	-0.33%/°C
Temperature Coefficients of I_{sc}	0.056%/°C

Maximum Ratings

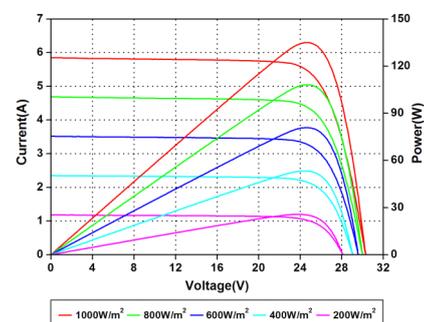
Operating Temperature	-40°C to +85°C
Maximum System Voltage	1000V DC
Maximum Series Fuse Rating	10A

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

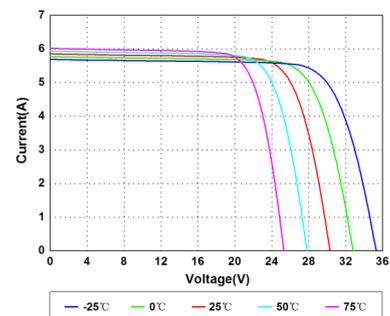
Drawings



I-V Curves



Current-Voltage and Power-Voltage Curves at Different Irradiances



Current-Voltage Curves at Different Temperatures

Worldwide Energy and Manufacturing USA Co., Limited

Tel: +1-650-777-7606

Email: sales@weamerisolar.com

www.weamerisolar.com

EN-V1.0 Copyright © 2014 Worldwide Energy and Manufacturing USA Co., Limited.