



AS-6M24 Amerisolar

Amerisolar's photovoltaic modules are designed for large-scale electrical power requirements. With a 25 year warranty, the AS-6M24 offers high-power and reliable performance for solar projects, both on- and off-grid.

- Solar Cells: High efficiency solar cells ensure high performance of the solar module and create maximum power output.
- Low-Iron Tempered Glass: High transmittance glass with an Anti-reflective coating increase the power output and mechanical strength of the solar module.
- Aluminum Frame: Screw-less corner joints provide superior rigidity. Six predrilled mounting holes ease installation.
- Superior Junction Box: Multi function junction box with water proof capabilities.
- Long Lifespan: ≥ 25Years.
- Tolerance: ±3%.
- High impact resistance affords superior performance during severe weather – high wind, driving rain, heavy snow and hail.
- Moisture proof and corrosion-resistant.
- Carries certificates from International Agencies: CE, TUV, UL, IEC, MCS and Korea Certificate.



WARRANTY

- Product: 10 years
- Power Output:
90%---10 years
80%---25 years

Electrical Characteristics

P_{max} , V_{oc} , I_{sc} , V_{mp} and I_{mp} at STC (1000W/m², 25°C, AM 1.5):

	160W	165W	170W	175W	180W	185W	190W
Maximum Power (P_{max})	160W	165W	170W	175W	180W	185W	190W
Open Circuit Voltage (V_{oc})	29.0V	29.0V	29.2V	29.4V	29.6V	29.8V	29.8V
Short Circuit Current (I_{sc})	7.48A	7.60A	7.72A	7.82A	7.95A	8.08A	8.20A
Maximum Power Voltage (V_{mp})	23.5V	23.8V	24.0V	24.2V	24.4V	24.7V	25.0V
Maximum Power Current (I_{mp})	6.82A	6.95A	7.10A	7.25A	7.38A	7.50A	7.62A

Temperature Coefficients

Temperature Coefficients of P_m	-0.47 %/°C
Temperature Coefficients of V_{oc}	-0.38 %/°C
Temperature Coefficients of I_{sc}	+0.04 %/°C
Temperature Coefficients of I_m	+0.04 %/°C
Temperature Coefficients of V_m	-0.38 %/°C

Absolute Maximum Limits

Maximum System Voltage	600V DC
Module Operating Temperature	-40°C to +85°C
Noct (DEGC.)	47°C±2°C



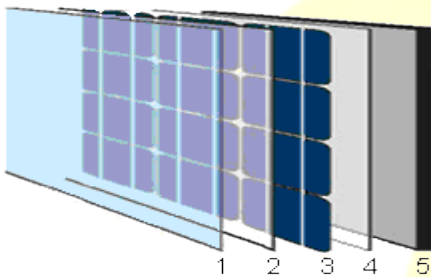
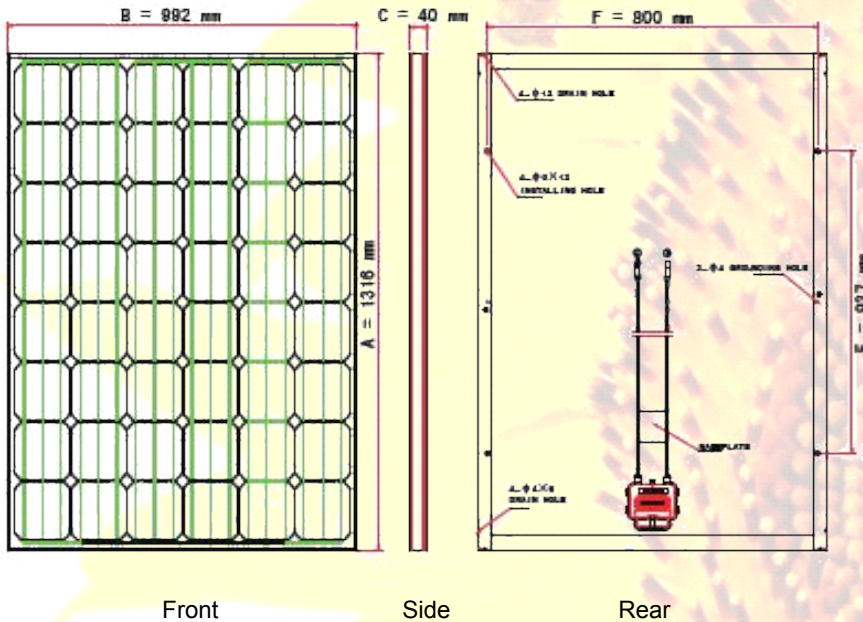
Passionately
committed to
delivering innovative
energy solutions

Mechanical Characteristics

Cell Technology	156mmx156mm Mono-crystal silicon
Number of Cells (Pcs)	48 (6x8)
Dimensions	1316mmx992mmx40mm
Weight	15.5kg
Frame	Anodized Aluminium Alloy
Length of Cables (mm)	1000mm
Allowable Hail Load	227g steel ball dropped from 1m height
Surface Maximum Load Capacity	60m/s Wind or 540kg/m ²

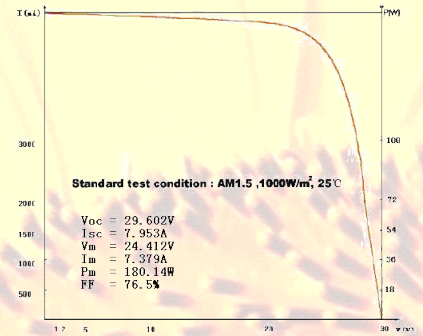
Basic Dimensions

ALL DIMENSIONS IN mm

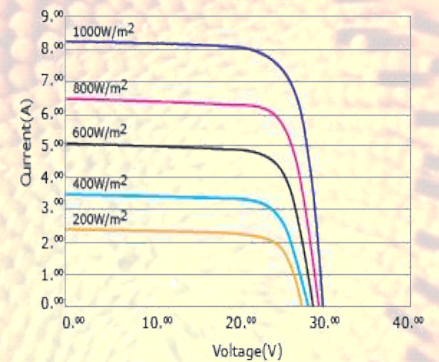


1. Front: tempered solar glass 3.2mm
2. EVA
3. 48 high efficiency solar cells
156mm X 156mm
4. EVA
5. Rear: laminate (weatherproof and waterproof)

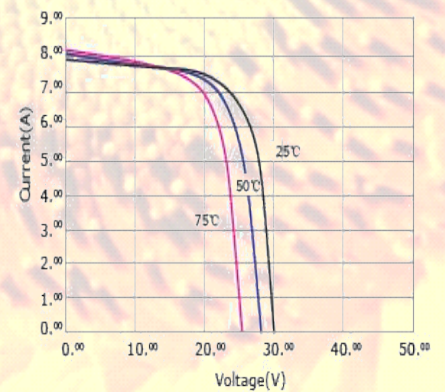
I-V curves



Module at STC



Various Irradiance Levels



Various Temperatures

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