

AS-5M Amerisolar



- Amerisolar's photovoltaic modules are designed for large-scale electrical power requirements. With a 25 year warranty, the AS-5M 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. Ten 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: UL, CE, TUV, IEC

Electrical Characteristics						
Watt - Maximum Power (Pmax)	160W	165W	170W	175W	180W	185W
Open Circuit Voltage (Voc)	42.55V	42.59V	43.35V	43.39V	43.44V	43.47V
Short Circuit Current (Isc)	4.79A	4.92A	4.99A	5.12A	5.27A	5.4A
Maximum Power Voltage (Vmp)	35.51V	35.54V	36.18V	36.21V	36.25V	36.28V
Maximum Power Current (Imp)	4.51A	4.64A	4.7A	4.83A	4.97A	5.1A
Module Efficiency (%)	12.54	12.93	13.32	13.71	14.1	14.49
Maximum System Voltage (DC)	1000V	1000V	1000V	1000V	1000V	1000V
Dimensions						
Length (Inches)	62.20	62.20	62.20	62.20	62.20	62.20
Width (Inches)	31.81	31.81	31.81	31.81	31.81	31.81
Height (Inches)	1.77	1.77	1.77	1.77	1.77	1.77
Weight (lbs)	34.17	34.17	34.17	34.17	34.17	34.17
Temperature Coefficients						
Temperature Coefficients of Pm	-0.47 %/°C					
Temperature Coefficients of Voc	-0.38 %/°C					
Temperature Coefficients of Isc	+0.04 %/°C					
Temperature Coefficients of Im	+0.04 %/°C					
Temperature Coefficients of Vm	-0.38 %/°C					
Absolute Maximum Limits						
Maximum System Voltage	1000V DC					
Module Operating Temperature	-40°C to +85°C					
Noct (DEGC.)	45°C±3°C					

WARRANTY

- Product: 5 years
- Power Output:
90%----10 years
80%----25 years

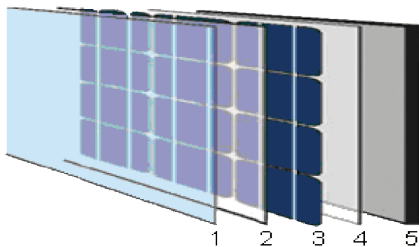
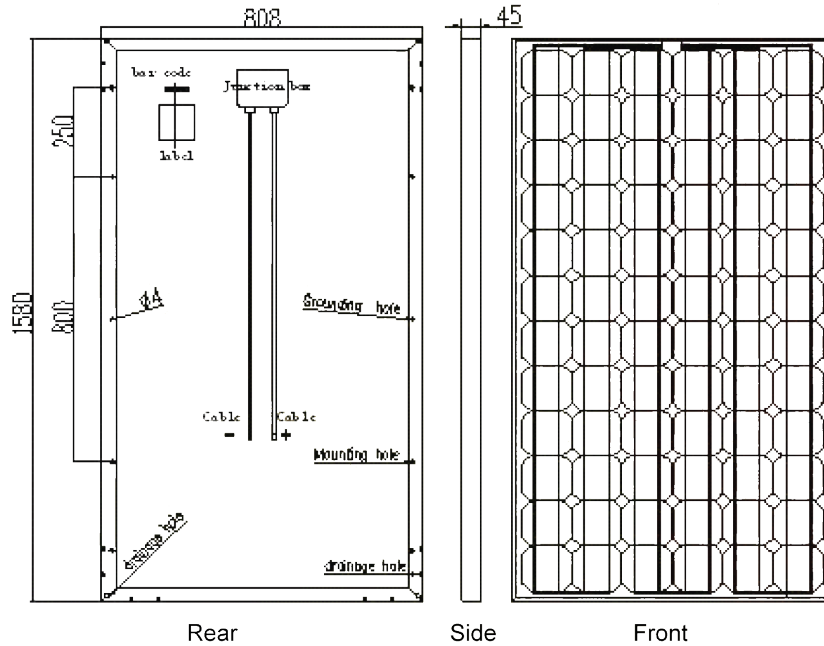


Mechanical Characteristics

Cell Technology	125mmx125mm [4.92inx4.92in] Mono-crystal silicon
Number of Cells (Pcs)	72 (6x12)
Dimensions	62.2in x 31.8in x 1.77in
Weight	34.17lbs
Frame	Aluminium-alloy
Length of Cables (mm)	900mm
Surface Type	Tempered Glass
Surface Maximum Load Capacity	60m/s(540kg/m ²)

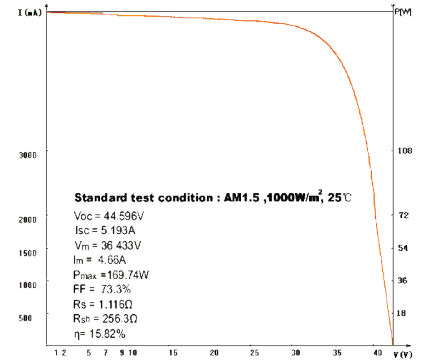
Basic Dimensions

ALL DIMENSIONS IN mm

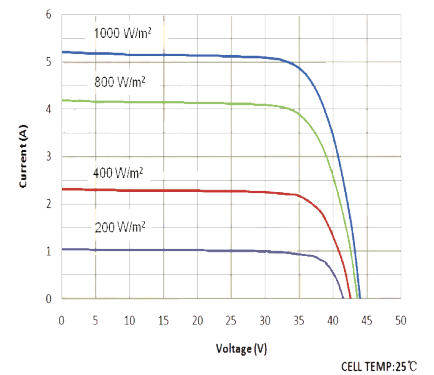


1. Front: tempered solar glass 3.2mm
2. EVA
3. 72 high efficiency solar cells 125mm X 125mm
4. EVA
5. Rear: laminate (weatherproof and waterproof)

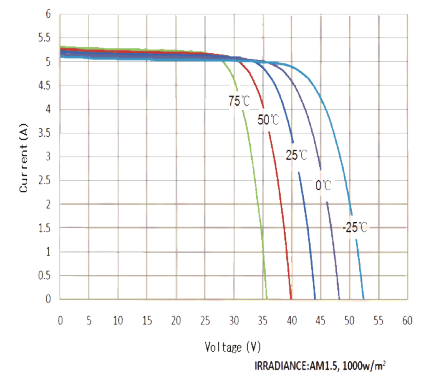
I-V curves



Module at STC



Various Irradiance Levels



Various Temperatures