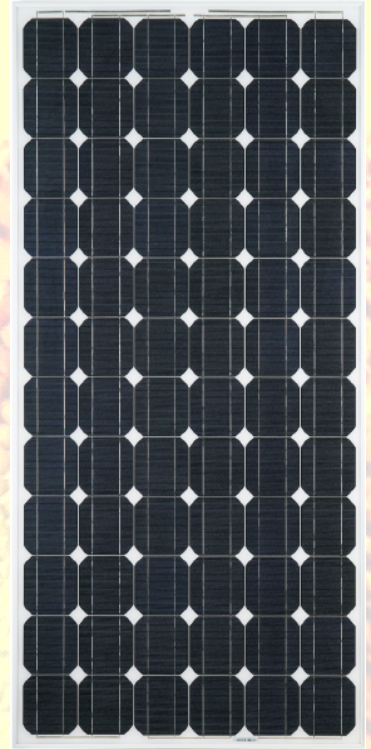




AS-5M Amerisolar

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: CE, TUV, UL, IEC, MCS and Korea Certificate.



Electrical Characteristics

P_{max} , V_{oc} , I_{sc} , V_{mp} and I_{mp} at STC (1000W/m ² , 25±2°C, AM 1.5);						
Maximum Power (P _{max})	160W	165W	170W	175W	180W	185W
Open Circuit Voltage (V _{oc})	42.8V	43.2V	43.6V	43.9V	44.2V	44.5V
Short Circuit Current (I _{sc})	5.15A	5.20A	5.25A	5.30A	5.35A	5.40A
Maximum Power Voltage (V _{mp})	34.90V	35.60V	35.80V	36.20V	36.80V	37.50V
Maximum Power Current (I _{mp})	4.60A	4.65A	4.75A	4.85A	4.90A	4.95A
Module Efficiency (%)	12.5	12.9	13.3	13.7	14.1	14.5

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

WARRANTY

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

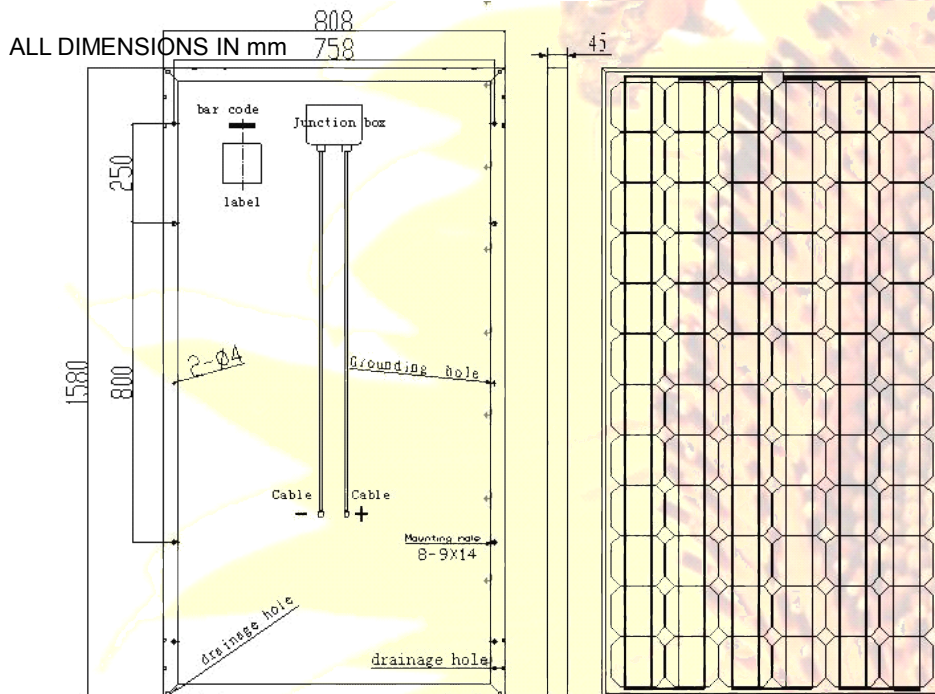


Passionately committed to delivering innovative energy solutions

Mechanical Characteristics

Cell Technology	125mmx125mm [4.92inx4.92in]	Mono-crystal silicon
Number of Cells (Pcs)	72 (6x12)	
Dimensions	1580mmx808mmx45mm [62.2inx31.81inx1.77in]	
Weight	15.5kg [34.17lb]	
Frame	Anodized Aluminium Alloy	
Length of Cables (mm)	900mm [35.43in]	
Allowable Hail Load	227g steel ball dropped from 1m height	
Surface Maximum Load Capacity	60m/s Wind or 540kg/m ²	

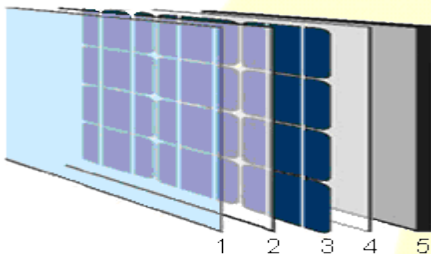
Basic Dimensions



Rear

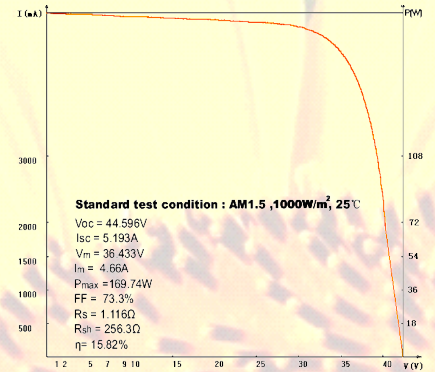
Side

Front

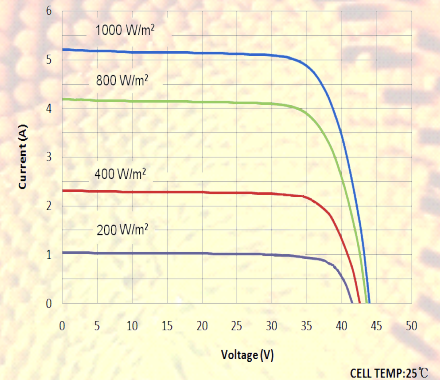


1. Front: tempered solar glass 3.2mm
2. EVA
3. 72 high efficiency solar cells
125mm X 125mm [4.92inx4.92in]
4. EVA
5. Rear: laminate (weatherproof and waterproof)

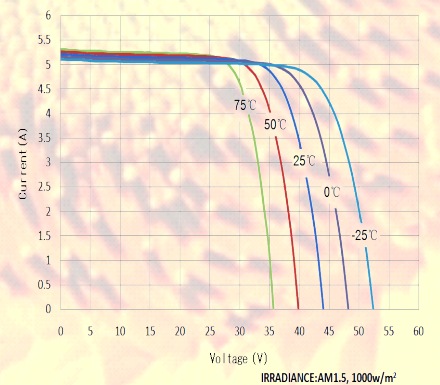
I-V curves



Module at STC



Various Irradiance Levels



Various Temperatures