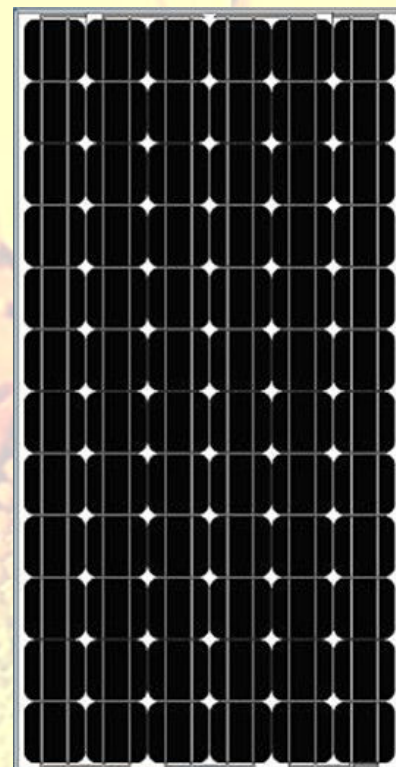




AS-5M Amerisolar

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

- Solar Cell: High efficiency solar cells ensure high performance of solar module and create maximum power output.
- Low iron tempered glass: Anti-reflecting coating and high transmission rate glass increase the power output and mechanical strength of solar module.
- Aluminum frame: Without screw, corner connection. Eight mounting holes on the frame can make the module to be installed easily.
- Superior Junction box: Multi function junction box with waterproof capabilities.
- Long lifespan: ≥ 30 years.
- Power tolerance: 0 ~ +3 %.
- Good performance of preventing from atrocious weather such as wind and hails.
- Resisting moisture and etching effectively, not affected by geology.
- The certificate issued by international authority: CE, TUV, IEC, UL, MCS PV CYCLE, CEC Australia listed, Israel Certificate and Korea Certificate.



WARRANTY

- Product: 12 years
- Power Output:
91.2%---12 years
80.6%---30 years

Electrical characteristics

P_{max} , V_{oc} , I_{sc} , V_{mp} and I_{mp} at STC (1000W/m ² , 25°C, AM 1.5);							
Maximum Power (P_{max})	175W	180W	185W	190W	195W	200W	205W
Open Circuit Voltage (V_{oc})	44.36V	44.53V	44.70V	44.87V	45.04V	45.21V	45.38V
Short Circuit Current (I_{sc})	5.28A	5.37A	5.45A	5.54A	5.63A	5.72A	5.81A
Maximum Power Voltage (V_{mp})	35.88V	36.08V	36.28V	36.48V	36.67V	36.86V	36.95V
Maximum Power Current (I_{mp})	4.88A	4.99A	5.10A	5.21A	5.32A	5.43A	5.55A
Module Efficiency (%)	13.71	14.10	14.49	14.88	15.27	15.67	16.06

Temperature Coefficients

Temperature Coefficients of P_{max}	-0.43 %/°C
Temperature Coefficients of V_{oc}	-0.33 %/°C
Temperature Coefficients of I_{sc}	+0.056 %/°C

Absolute Maximum Limits

Maximum System Voltage	1000V DC
Module Operating Temperature	-40°C to +85°C
NOCT	45°C±2°C



Passionately committed to delivering innovative energy solution

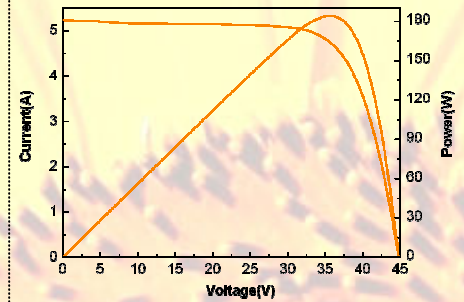
www.weamerisolar.com



Mechanical characteristics

Cell Technology	125mmx125mm [4.92inx4.92in]	Mono-crystal silicon
Number of Cells (Pcs)	72 (6x12)	
Dimensions	1580mmx808mmx46mm	
Weight	15.5kg	
Frame	Anodized Aluminium Alloy	
Length of Cables	900mm	
Allowable Hail Impact	25mm hail at 23m/s	
Surface Maximum Load Capacity	2400Pa(Wind load) / 5400Pa(Snow load)	

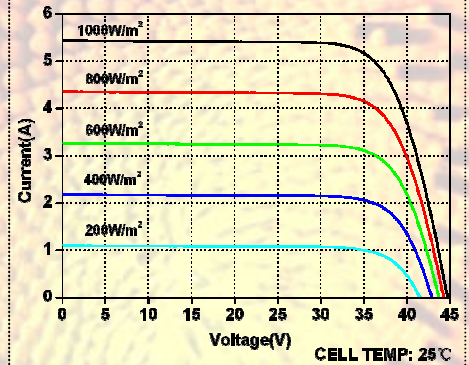
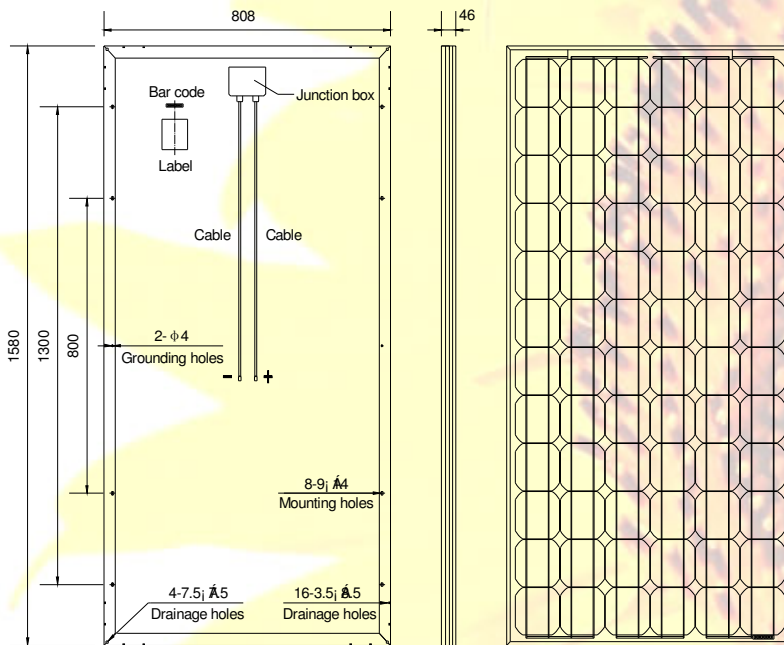
I-V curves



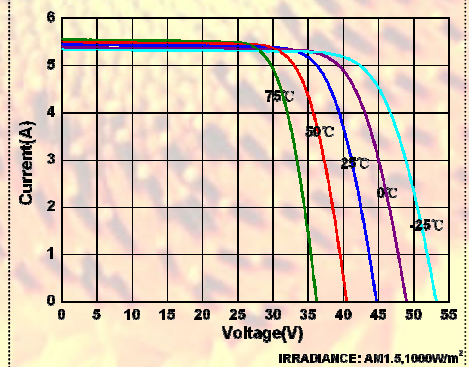
Module at STC

Basic Dimensions

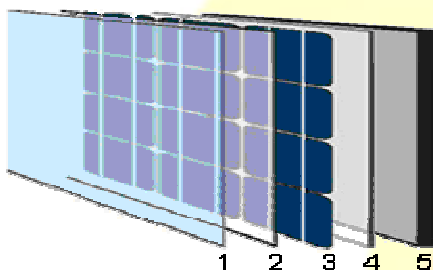
ALL DIMENSIONS IN mm



Various Irradiance Levels



Various Temperatures



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

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