



AS-6P-220W Amerisolar

Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 25 year warranty, AS-6P 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. 10 holes on the frame can be installed easily.
- Superior Junction box: Multi function junction box with water proof capabilities.
- Long lifespan: ≥ 25 Years.
- Tolerance: $\pm 3\%$.
- Good performance of preventing from atrocious weather such as wind and hails.
- Resisting moisture and etching effectively, not effect by geology.
- The certificate issued by international authority: CE, TUV, IEC, UL, MCS and Korea Certificate.

Electrical characteristics

P_{max} , V_{oc} , I_{sc} , V_{mp} and I_{mp} at STC (1000W/m², 25±2°C, AM 1.5);

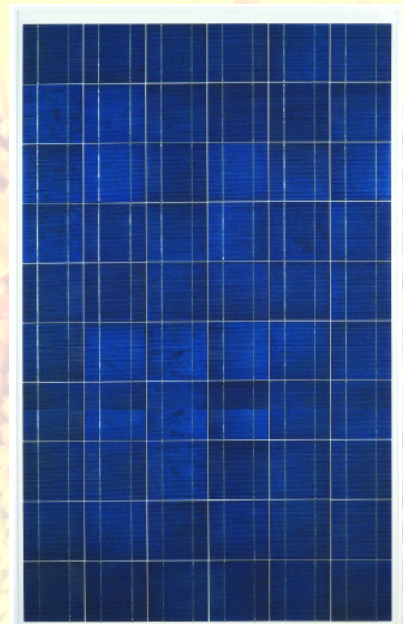
Maximum Power (P_{max})	220W	Module Efficiency (%)	13.4
Open Circuit Voltage (V_{oc})	36.5 V	Maximum Power Voltage (V_{mp})	29.2 V
Short Circuit Current (I_{sc})	7.94 A	Maximum Power Current (I_{mp})	7.51 A

Temperature Coefficients

Temperature Coefficients of P_m	-0.40 %/°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	1000V DC
Module Operating Temperature	-40°C to +85°C
Noct (DEGC.)	45°C±3°C



WARRANTY

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

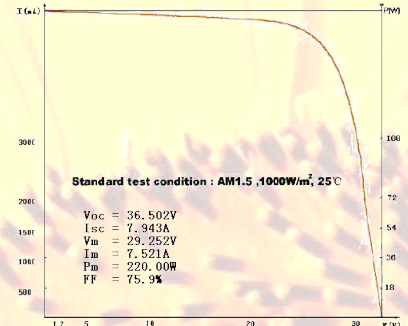


Passionately
committed to
delivering innovative
energy solution

Mechanical characteristics

Cell Technology	156mmx156mm [6.14inx6.14in]	Poly-crystal silicon
Number of Cells (Pcs)	60 (6x10)	
Dimensions	1636mmx992mmx50mm	
Weight	22kg	
Frame	Aluminium-alloy	
Length of Cables (mm)	1000mm	
Allowable Hail Load	Steel ball fall down from 1m height	
Surface Maximum Load Capacity	60m/s(540kg/m ²)	

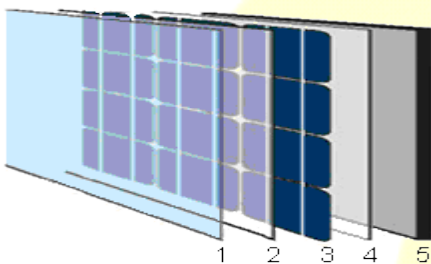
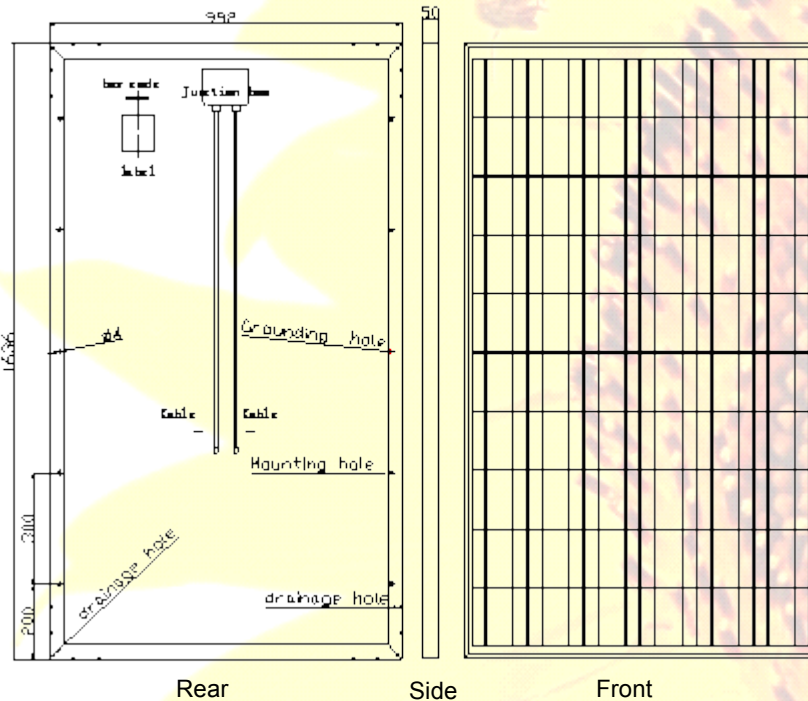
I-V curves



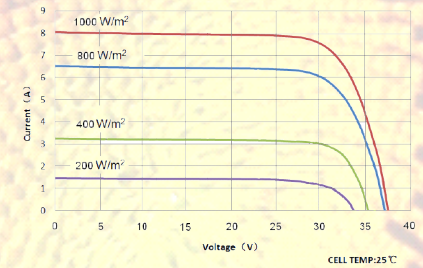
Module at STC

Basic Dimensions

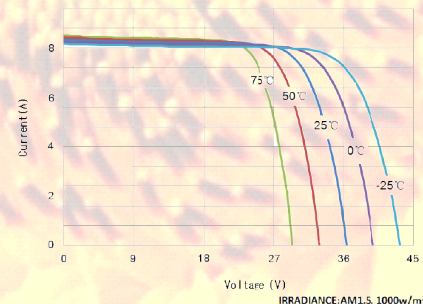
ALL DIMENSIONS IN mm



1. Front: tempered solar glass 3.2mm
2. EVA
3. 60 high efficiency solar cells
156mm X 156mm
4. EVA
5. Rear: laminate (weatherproof and waterproof)



Various Irradiance Levels



Various Temperatures

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