



AS-6P Amerisolar

Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 30 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. 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: $0 \sim +3\%$.
- 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.

Electrical characteristics

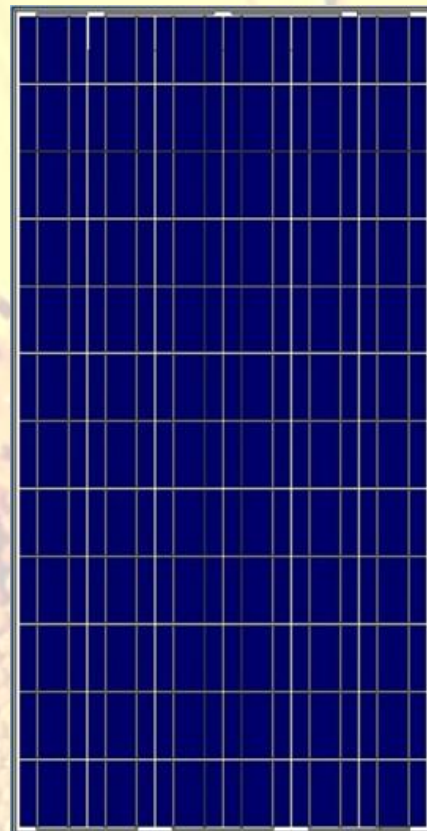
P_{max} , V_{oc} , I_{sc} , V_{mp} and I_{mp} at STC (1000W/m ² , 25°C, AM 1.5);												
Maximum Power (P_{max})	255W	260W	265W	270W	275W	280W	285W	290W	295W	300W	305W	310W
Open Circuit Voltage (V_{oc})	44.1V	44.2V	44.2V	44.2V	44.3V	44.3V	44.4V	44.5V	44.6V	44.7V	44.8V	44.9V
Short Circuit Current (I_{sc})	8.04A	8.06A	8.14A	8.21A	8.28A	8.36A	8.44A	8.52A	8.60A	8.68A	8.76A	8.85A
Maximum Power Voltage (V_{mp})	35.9V	36.0V	36.1V	36.2V	36.2V	36.3V	36.4V	36.5V	36.6V	36.7V	36.8V	36.9V
Maximum Power Current (I_{mp})	7.11A	7.23A	7.35A	7.47A	7.60A	7.72A	7.83A	7.95A	8.07A	8.19A	8.31A	8.43A
Module Efficiency (%)	13.14	13.40	13.66	13.92	14.17	14.43	14.69	14.95	15.20	15.46	15.72	15.98

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



WARRANTY

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



Passionately
committed to
delivering innovative
energy solution

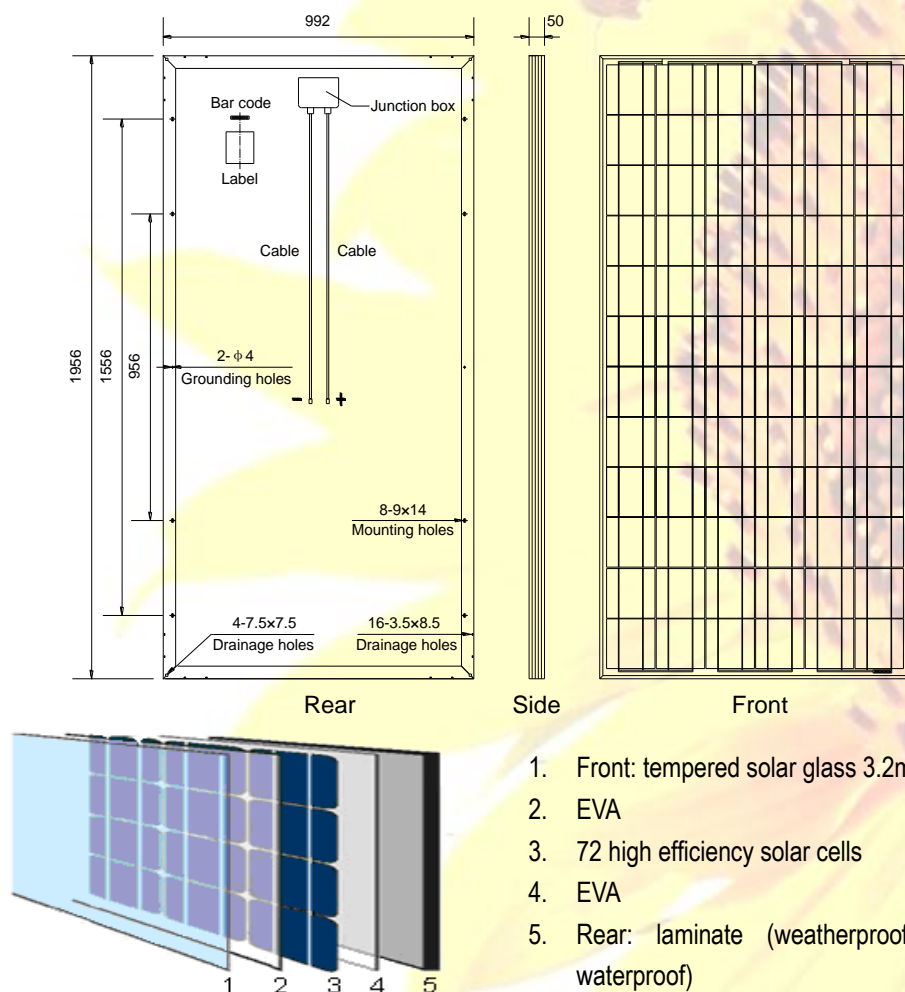


Mechanical characteristics

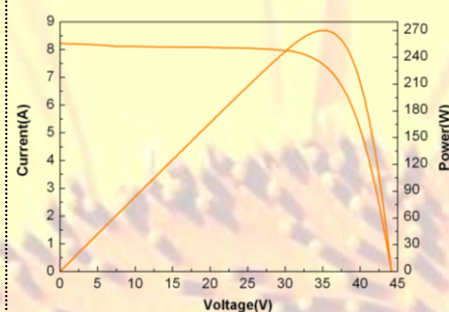
Cell Technology	156mmx156mm [6.14inx6.14in]	Poly-crystal silicon
Number of Cells (Pcs)	72 (6x12)	
Dimensions	1956mmx992mmx50mm	
Weight	24kg	
Frame	Anodized Aluminium Alloy	
Length of Cables	1000mm	
Allowable Hail Impact	25mm hail at 23m/s	
Surface Maximum Load Capacity	2400Pa(Wind load) / 5400Pa(Snow load)	

Basic Dimensions

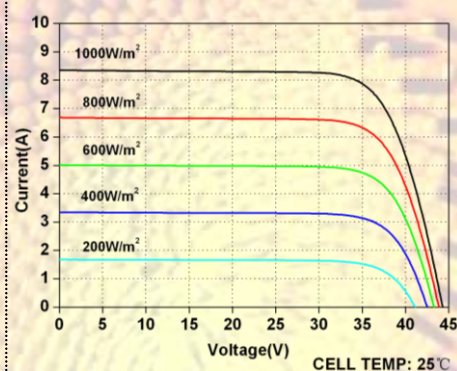
ALL DIMENSIONS IN mm



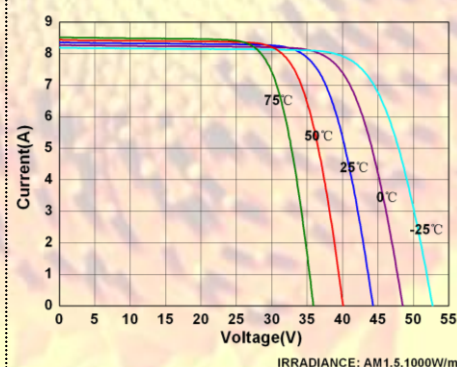
I-V curves



Module at STC



Various Irradiance Levels



Various Temperatures