



AS-6M30 Amerisolar

Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 30 year warranty, AS-6M30 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})	215W	220W	225W	230W	235W	240W	245W	250W	255W	260W
Open Circuit Voltage (V_{oc})	36.5V	36.6V	36.8V	36.9V	37.0V	37.1V	37.2V	37.3V	37.4V	37.5V
Short Circuit Current (I_{sc})	7.95A	8.10A	8.16A	8.31A	8.42A	8.52A	8.62A	8.72A	8.82A	8.91A
Maximum Power Voltage (V_{mp})	29.9V	30.0V	30.1V	30.2V	30.3V	30.3V	30.4V	30.5V	30.6V	30.7V
Maximum Power Current (I_{mp})	7.20A	7.34A	7.48A	7.62A	7.76A	7.92A	8.06A	8.20A	8.34A	8.48A
Module Efficiency (%)	13.1	13.5	13.8	14.1	14.4	14.7	15.0	15.3	15.6	15.9

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



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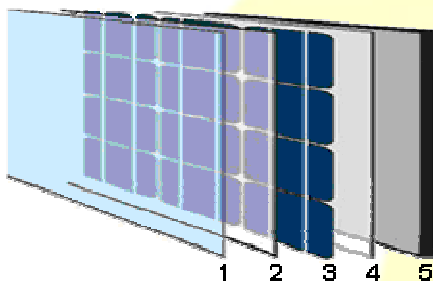
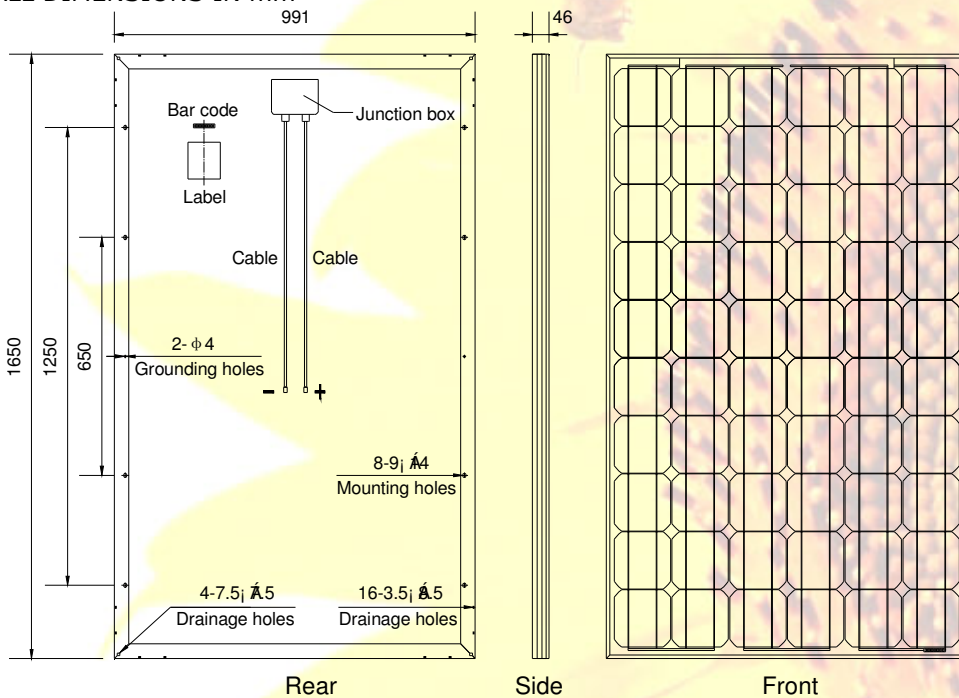


Mechanical characteristics

Cell Technology	156mmx156mm [6.14inx6.14in]	Mono-crystal silicon
Number of Cells (Pcs)	60 (6x10)	
Dimensions	1650mmx991mmx46mm	
Weight	19.5kg	
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)	

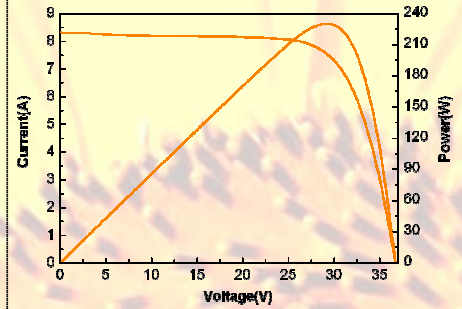
Basic Dimensions

ALL DIMENSIONS IN mm

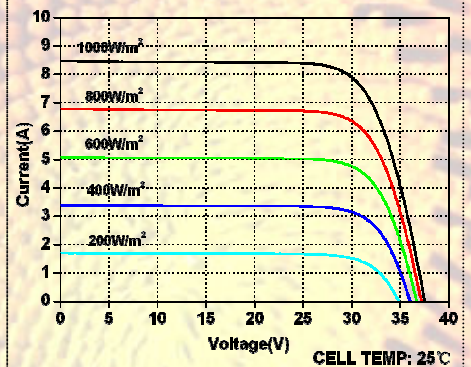


1. Front: tempered solar glass 3.2mm
2. EVA
3. 60 high efficiency solar cells
4. EVA
5. Rear: laminate (weatherproof and waterproof)

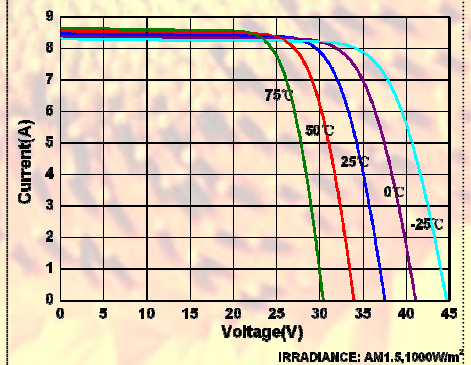
I-V curves



Module at STC



Various Irradiance Levels



Various Temperatures