



## 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:  $\geq 30$  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 <sup>2</sup> , 25°C, AM 1.5);					
	230W	235W	240W	245W	250W
Maximum Power ( $P_{max}$ )	230W	235W	240W	245W	250W
Open Circuit Voltage ( $V_{oc}$ )	36.9V	37.0V	37.1V	37.2V	37.3V
Short Circuit Current ( $I_{sc}$ )	8.31A	8.42A	8.52A	8.62A	8.72A
Maximum Power Voltage ( $V_{mp}$ )	30.1V	30.2V	30.3V	30.4V	30.5V
Maximum Power Current ( $I_{mp}$ )	7.65A	7.78A	7.92A	8.06A	8.20A
Module Efficiency (%)	13.92	14.23	14.53	14.83	15.13

### 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	600V DC
Module Operating Temperature	-40°C to +85°C
NOCT	45°C±2°C



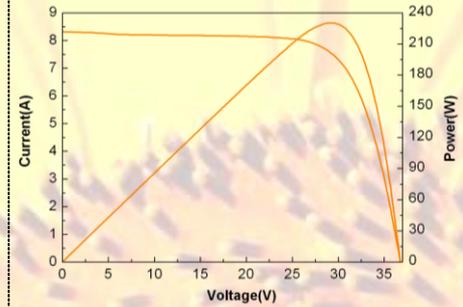
Passionately committed to delivering innovative energy solution

[www.weamerisolar.com](http://www.weamerisolar.com)

**Mechanical characteristics**

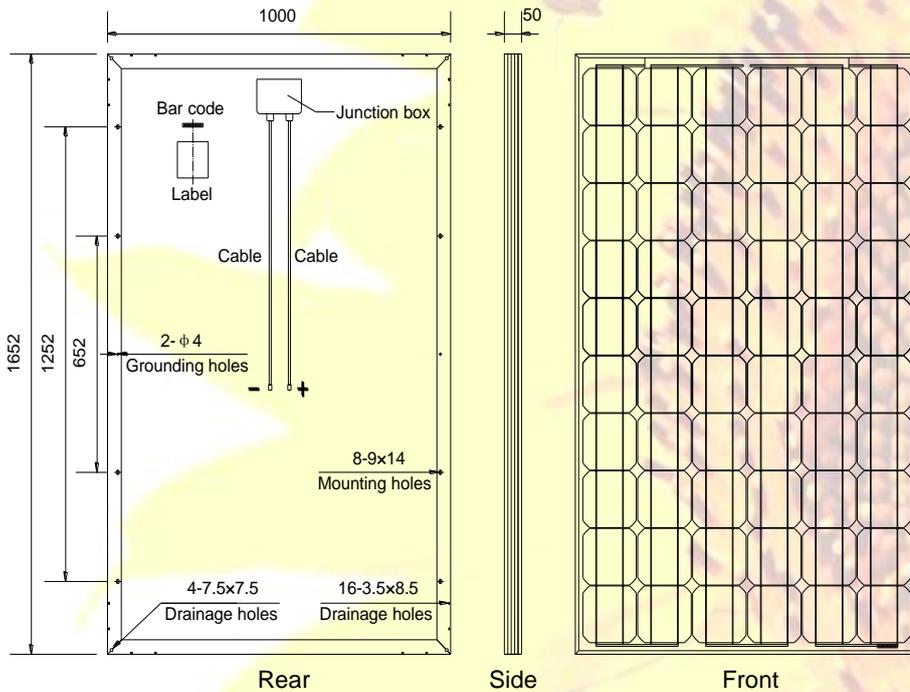
Cell Technology	156mmx156mm [6.14inx6.14in]	Mono-crystal silicon
Number of Cells (Pcs)	60 (6x10)	
Dimensions	1652mmx1000mmx50mm [65.04inx39.37inx1.97in]	
Weight	22kg [48.50lb]	
Frame	Anodized Aluminium Alloy	
Length of Cables	900mm [35.43in]	
Allowable Hail Impact	25mm hail at 23m/s	
Surface Maximum Load Capacity	2400Pa(Wind load) / 5400Pa(Snow load)	

**I-V curves**

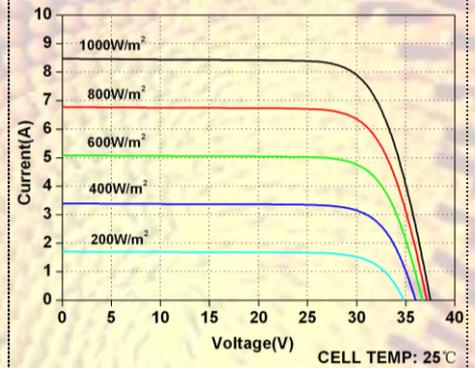


**Basic Dimensions**

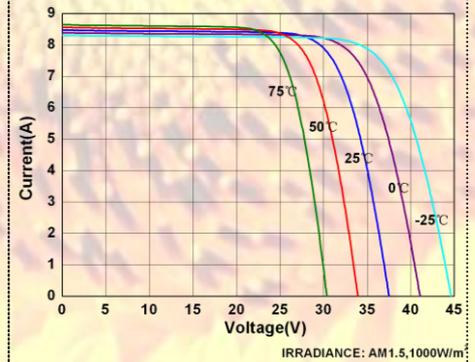
ALL DIMENSIONS IN mm



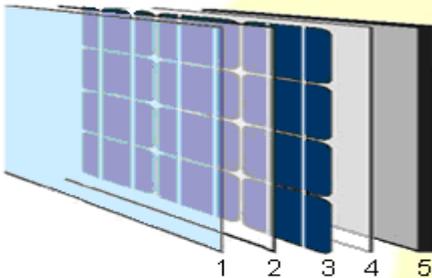
**Module at STC**



**Various Irradiance Levels**



**Various Temperatures**



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