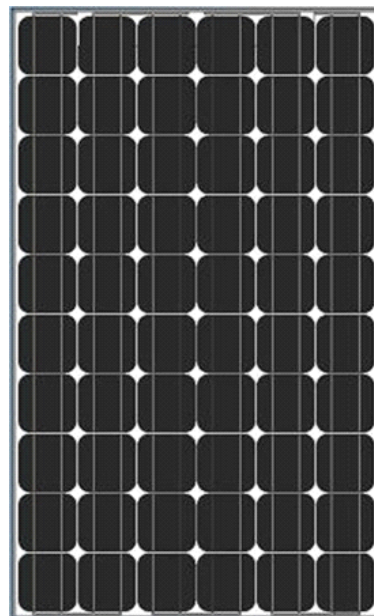




AS-6M30 Amerisolar

Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 30-year warranty, AS-6M30 offers high-powered, reliable performance for both on- and off-grid solar projects.

- Solar Cell: High efficiency solar cells ensure high performance of solar module and maximize the power output.
- Low iron tempered glass: Anti-reflecting coating enhances light transmittance and increases the power output of solar module.
- Aluminum frame: Robust and corrosion resistant aluminum frame, designed for easy installation and long term reliability.
- Junction box: High stability with good waterproof and dustproof capabilities.
- Long lifespan: ≥ 30 years.
- Power tolerance: 0 ~ +3 %.
- Good performance when used under atrocious weather such as wind and hails.
- Salt mist corrosion resistance, Ammonia corrosion resistance and Moisture resistance ensure the modules to be applied under the circumstances of coastal areas and farms.
- 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

<i>P_{max}, V_{oc}, I_{sc}, V_{mp} and I_{mp} at STC (1000W/m², 25°C, AM 1.5);</i>								
Maximum Power (P _{max})	225W	230W	235W	240W	245W	250W	255W	260W
Open Circuit Voltage (V _{oc})	36.8V	36.9V	37.0V	37.1V	37.2V	37.3V	37.4V	37.5V
Short Circuit Current (I _{sc})	8.16A	8.31A	8.42A	8.52A	8.62A	8.72A	8.82A	8.91A
Maximum Power Voltage (V _{mp})	30.1V	30.2V	30.3V	30.3V	30.4V	30.5V	30.6V	30.7V
Maximum Power Current (I _{mp})	7.48A	7.62A	7.76A	7.92A	8.06A	8.20A	8.34A	8.48A
Module Efficiency (%)	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



Passionately committed to delivering innovative energy solution

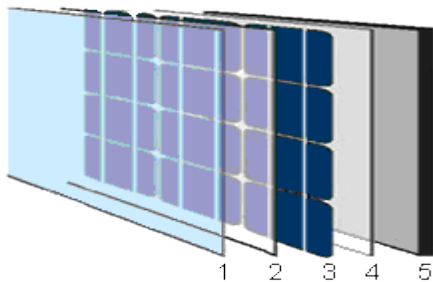
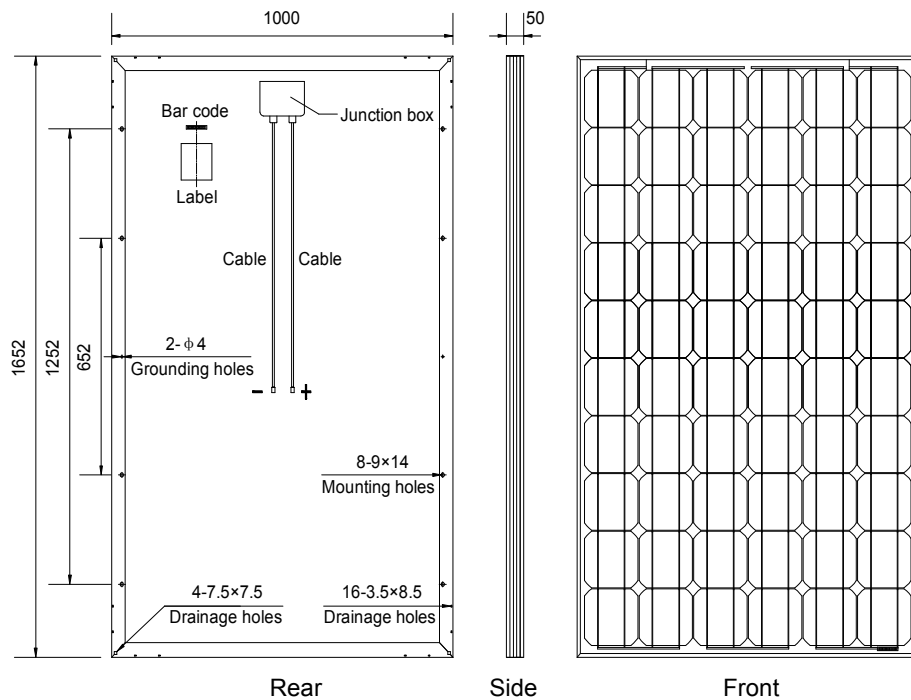


Mechanical characteristics

Solar Cell	Monocrystalline silicon 156mmx156mm
Number of Cells	60 (6x10)
Dimensions	1652mmx1000mmx50mm
Weight	22kg
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)

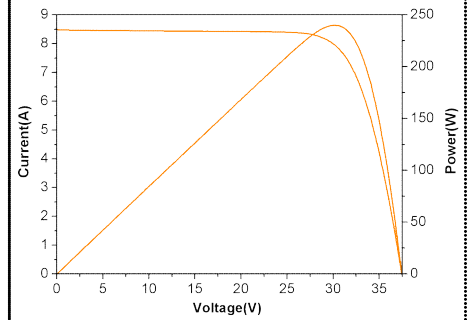
Basic Dimensions

Unit: mm

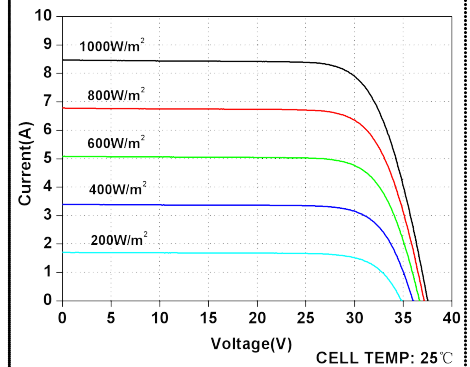


1. Front: 3.2mm tempered glass
2. EVA
3. 60 high efficiency solar cells
4. EVA
5. Rear: laminate (weatherproof and waterproof)

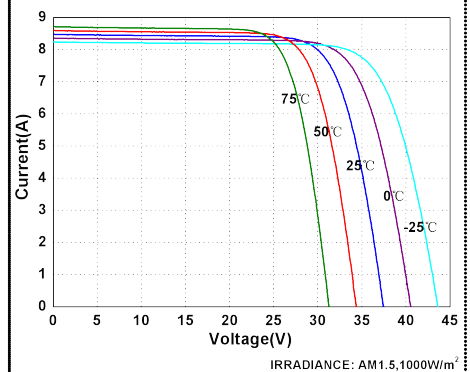
I-V curves



Current-Voltage and Power-Voltage curves under STC



Current-Voltage curves at different irradiances



Current-Voltage curves at different temperatures

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