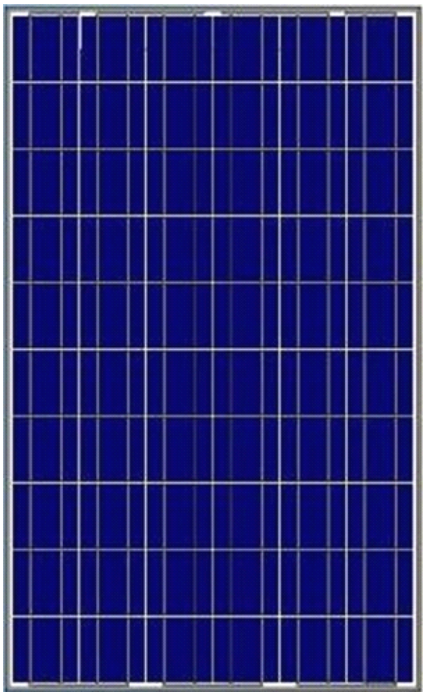
New Energy

New World

Worldwide Energy and Manufacturing USA, Co., Ltd.

AS-6P30 Amerisolar



Amerisolar's photovoltaic modules are designed for large electrical power requirements. With a 30-year warranty, AS-6P30 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

P_{max}, V_{oc}, I_{sc}, V_{mp} and I_{mp} at STC (1000W/m², 25°C, AM 1.5);							
Maximum Power (P_{max})	225W	230W	235W	240W	245W	250W	255W
Open Circuit Voltage (V_{oc})	37.00V	37.17V	37.34V	37.51V	37.68V	37.85V	38.02V
Short Circuit Current (I_{sc})	8.23A	8.31A	8.40A	8.48A	8.56A	8.64A	8.72A
Maximum Power Voltage (V_{mp})	29.12V	29.32V	29.52V	29.72V	29.92V	30.12V	30.32V
Maximum Power Current (I_{mp})	7.73A	7.84A	7.96A	8.08A	8.19A	8.30A	8.41A
Module Efficiency (%)	13.76	14.07	14.37	14.68	14.98	15.29	15.59

Temperature Coefficients

Temperature Coefficients of P_{max}	-0.43 %/℃
Temperature Coefficients of V_{oc}	-0.33 %/℃
Temperature Coefficients of I_{sc}	+0.056 %/℃

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

www.weamerisolar.eu

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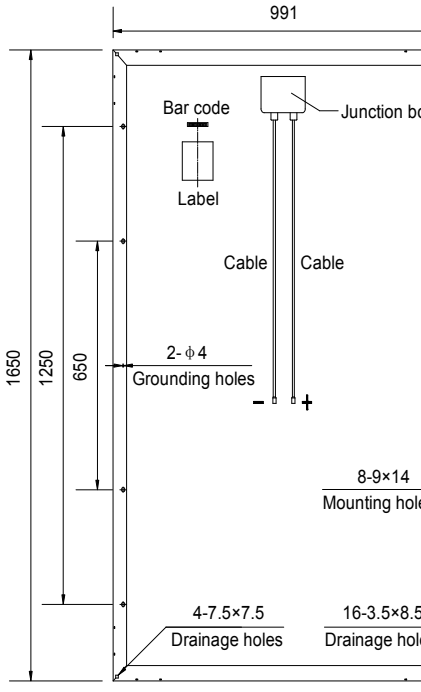
Mechanical characteristics

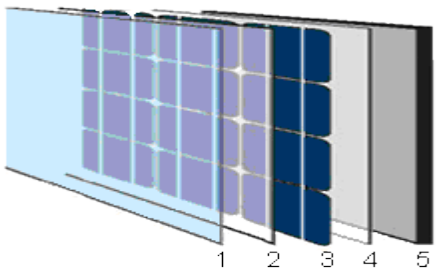
Solar Cell	Polycrystalline silicon 156mmx156mm
Number of Cells	60 (6x10)
Dimensions	1650mmx991mmx46mm
Weight	19.5kg
Frame	Anodized aluminium alloy
Length of Cables	900mm
Allowable Hail Impact	25mm hail at 23m/s
Surface Maximum Load Capacity	2400Pa(Wind load) / 5400Pa(Snow load)

Basic Dimensions

Unit: mm

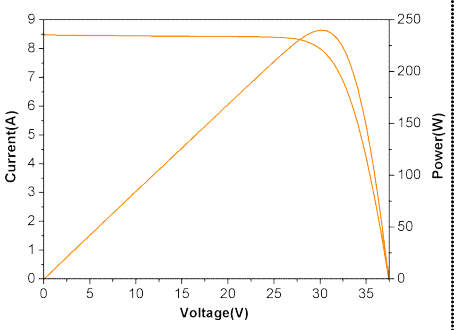


Rear Side Front

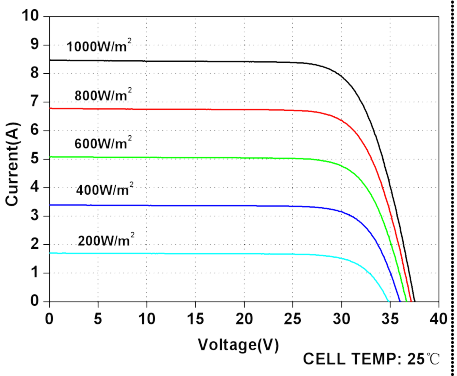


1. Front: 3.2mm tempered glass
2. EVA
3. 60 high efficiency solar cells
4. EVA
5. Rear: laminate (weatherproof and waterproof)

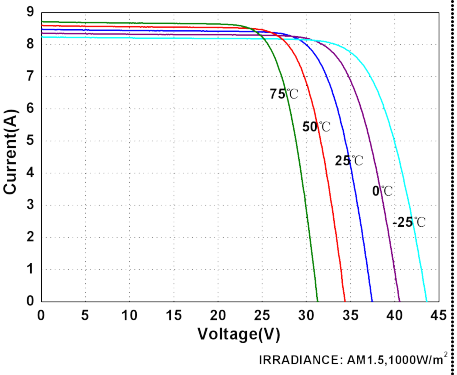
I-V curves



Current-Voltage and Power-Voltage curves under STC



Current-Voltage curves at different irradiances



Current-Voltage curves at different temperatures

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