

AMERISOLAR POLYCRYSTALLINE

Amerisolar, Worldwide Energy and Manufacturing USA Co., Ltd, is a professional solar module manufacturer with a 21-year experience in production and quality control, that produce solar modules into the range of 60 to 330 W, with production lines in Taiwan, South Korea and Portugal, and a total production capacity of 820 MW



Panel-Solar-Amersiolar

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

Key Features

- High module conversion efficiency up to 17.01% through advanced manufacturing technology.
- Low degradation and excellent performance under high temperature and low light conditions.
- Robust aluminum frame ensures the modules to withstand wind loads up to 2400Pa and snow loads up to 5400Pa.
- Positive power tolerance of 0 / + 3 %.
- High ammonia and salt mist resistance.

Quality Certificates

- IEC61215, IEC61730, IEC62716, IEC61701, UL1703, CE, ETL, JET, J-PEC, MCS, CEC, FSEC, CSI Eligible, Israel Electric, Kemco, InMetro, TSE.
- ISO9001:2008: Quality management system
- ISO14001:2004: Environmental management system
- OHSAS18001:2007: Occupational health and safety management system

Special Warranties

- 12 year limited product warranty.
- Limited power warranty: 12 years 91.2 % of the nominal power output, 30 years 80.6% of the nominal power output

SPECIFICATIONS

| | AS-6P18-150 | AS-6P30-275 | AS-6P30-280 | AS-6P-320 | AS-6P-330 |
|------------------------|--------------------|-------------|-------------|-----------|-----------|
| Number of cells | 36 | 60 | 60 | 72 | 72 |
| Cell type | Polycrystalline 6" | | | | |
| Maximum System voltage | 1000 V | | | | |

Electrical specifications *

| Nominal Power | Pmax | 150 Wp | 275 Wp | 280 Wp | 320 W | 330 W |
|------------------------|------|--------|--------|--------|--------|--------|
| Power output tolerance | | 0/+3% | 0/+3% | 0/+3% | 0/+3% | 0/+3% |
| Maximum power voltage | Vmpp | 18,2 V | 31,3 V | 31,5 V | 37,1 V | 37,3 V |
| Open circuit voltage | Voc | 22,4 V | 38,5 V | 38,6 V | 45,7 V | 45,9 V |
| Maximum power current | Impp | 8,25 A | 8,79 A | 8,89 A | 8,63 A | 8,85 A |
| Short circuit current | Isc | 8,70 A | 9,20 A | 9,31 A | 9,04 A | 9,26 A |

Temperature Ratings

| | | | | | | |
|-----------------------------------|--------|-------------|-------------|-------------|-------------|-------------|
| Open circuit voltage coefficient | Tk | -0,33 | -0,31 | -0,31 | -0,31 | -0,31 |
| | Voc | % / °C | % / °C | % / °C | % / °C | % / °C |
| Short circuit current coefficient | Tk Isc | 0,056 | 0,05 | 0,05 | 0,05 | 0,05 |
| | | % / °C | % / °C | % / °C | % / °C | % / °C |
| Operating temperature | NOCT | 45 °C ±2 °C | 45 °C ±2 °C | 45 °C ±2 °C | 45 °C ±2 °C | 45 °C ±2 °C |


Other specifications

| | | | | | | |
|----------------|--------|------------------------------|----------------------|----------------------|-----------------------|-----------------------|
| Dimensions | | 1483 x 665 x 35 mm | 1640 x 992 x 35 mm | 1640 x 992 x 35 mm | 1956 x 992 x 40 mm | 1956 x 992 x 40 mm |
| | Weight | 12 Kgr. | 18 Kgr. | 18 Kgr. | 22,5 Kgr. | 22,5 Kgr. |
| Connection box | | IP67 - 3 diodes Junction box | | | | |
| Cable | | Cable 4 mm2 - 900 mm | Cable 4 mm2 - 900 mm | Cable 4 mm2 - 900 mm | Cable 4 mm2 - 1000 mm | Cable 4 mm2 - 1000 mm |

* Standard Test Conditions STC: (Air Mass AM1.5, Irradiance 1000 W/m2, Cell temperature 25° C)

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