

# The complete idiot s guide to solar power for your home

Who should install a solar photovoltaic system?

Installation should only be performed by qualified personnel. Before installing a solar photovoltaic system, installers should familiarize themselves with its mechanical and electrical requirements. Keep this guide in a safe place for future reference and in case of sale or disposal of the Modules.

How can a solar module produce higher output than rated specifications?

Modules can produce higher output than the rated specifications. Industry standard ratings are made at Standard Test Conditions of 1000 W/m<sup>2</sup> Irradiance, 25°C Cell Temperature and 1.5 Air Mass. Reflection from snow or water can increase sunlight and therefore boost current and power.

Do JA Solar modules need a dc cathode?

For optimal performance, JA Solar Modules should only be used in configurations where the DC cathode of the Modules array is connected to ground. Failure to comply with this requirement will reduce the performance of the system and invalidate JA Solar's Limited Power Warranty for Modules.

How do I install a solar photovoltaic system?

Installing solar photovoltaic systems requires specialized skills and knowledge. Installation should only be performed by qualified personnel. Before installing a solar photovoltaic system, installers should familiarize themselves with its mechanical and electrical requirements.

How do you wire a solar PV system?

Use field wiring with suitable cross-sectional areas that are approved for use at the maximum short-circuit current of the Modules. JA Solar recommends installers use only sunlight resistant cables qualified for direct current (DC) wiring in PV systems. And the rated system voltage of PV wire should be not than PV modules.

How JA Solar modules work?

JA Solar Modules use an anodic oxidized aluminum frame to resist corrosion. So the frame of Modules should be connected to the equipment grounding conductor to prevent thunder and electrical shock. The grounding device should fully contact with the inside of the aluminum alloy, and should penetrate the surface of the frame oxidation film.

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