

# Photovoltaic panel unpacking tips and drawings

Which materials should be used to install photovoltaic modules?

JA Solar recommends that when installing modules at the seaside, stainless steel or aluminum materials should be used to contact the photovoltaic modules, and the installation parts should be well protected from corrosion. The tilt angle of the modules is measured between the surface of the modules and a horizontal ground surface.

Are photovoltaic modules dangerous?

Photovoltaic modules can produce DC electricity when exposed to light and therefore can produce an electrical shock or burn. DC voltage of 30 Volts or higher is potentially lethal. Modules produce voltage even when are not connected to an electrical circuit or load. Please use insulated tools and rubber gloves when working with modules in sunlight.

How do I know if my PV modules have been shipped?

Before you unpack your modules, check the shipping label to ensure you received the right modules. Once you unpack your modules, check the module frame serial number and model label against the shipping label. The serial number is the unique identifier of each PV module.

What is UL Standard 1703 for photovoltaic modules & panels?

An addendum to UL Standard 1703 "Flat Plate Photovoltaic Modules and Panels" recommends metal combinations not exceed an electrochemical potential difference of 0.6 Volts. The frame rails have pre-drilled holes marked with a grounding sign. These holes should be used for grounding purposes and must not be used for mounting the modules.

What are the standard test conditions for photovoltaic modules?

Standard Test Conditions: 1000W/m<sup>2</sup> Irradiance, 25°C Cell Temperature and 1.5 Air Mass. Under normal conditions, the photovoltaic modules may experience conditions that produce more current and/or voltage than reported at Standard Test Conditions.

What are the requirements for mounting a solar module?

Mounting structure shall be made from durable, corrosion resistant, UV-proof materials. Modules shall be fixed on the bracket solidly. In regions with heavy snowfall in winter, adjust the height of the mounting system so that the lower edge of the module is not covered by snow.

It's best to stage the pallets in a flat, open and dry location when unpacking, and position the pallets next to a solid, self-standing support structure, such as a tracker post or ...

1. Solar Panel (PV Module) The symbol for a solar panel is a square split into two parts: a smaller rectangle inside the larger one, representing the conversion of sunlight into electricity. 2. PV ...

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**Solar Module Cell:** The solar cell is a two-terminal device. One is positive (anode) and the other is negative (cathode). A solar cell arrangement is known as solar module or solar panel where ...

Module manufacturers should work closely with both the freight carriers and their customers to mitigate the risks of module mishandling. Preinstallation training should be encouraged as well as the sharing of best ...

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It's best to stage the pallets in a flat, open and dry location when unpacking, and position the pallets next to a solid, self-standing support structure, such as a tracker post or wall -- the taller and sturdier the better -- where the ...

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