



# Field photovoltaic panel installation auxiliary equipment

Do PV modules need a grounding conductor?

Metal parts of PV module frames, PV equipment, and enclosures containing PV system ac and dc conductors must be connected to the circuit equipment grounding conductor per 690.43 (A) through (D). (A) Photovoltaic Module Mounting Systems and Devices.

What equipment do you need to install solar panels?

In addition to tools, specific equipment is necessary for a successful solar panel installation. Here are some key items to have on hand: Invest in high-quality solar panel mounting hardware, including rails, clamps, and brackets. These components provide a secure and stable foundation for solar panels on various roof types.

What is a PV module?

PV Module is a unit of environmentally protected solar cells and components designed to produce dc power. In Article 100, you'll find other important Article 690 terms, including AC Module, DC Combiner, DC-to-DC Converter, Electronic Power Converter, Functionally Grounded Inverter, Ground-Fault Detector-Interrupter, and Inverter Output Circuit.

What safety equipment should a solar panel installer have?

Safety should always be a top priority during solar panel installation. Make sure to have the following safety equipment on hand: Safety Glasses: Protect your eyes from debris and potential hazards. Gloves: Wear gloves to provide grip, protect against sharp edges, and minimize the risk of cuts or injuries.

What devices must be listed for bonding PV modules?

(A) Photovoltaic Module Mounting Systems and Devices. Devices used to secure and bond PV module frames to metal support structures and adjacent PV modules must be listed for bonding PV modules.

Why do I need auxiliary contacts for PV shedding?

Load shedding can be used to shed non-essential loads on a site during a grid outage to ensure that the essential loads are backed up for a longer time. Alternately, you may want to use the auxiliary contacts for PV shedding to maintain the Solar-To-Storage ratio in off-grid mode on sites with IQ6, IQ7, M215, or M250 Microinverters.

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