

What are equipment grounding requirements for PV systems?

Equipment grounding requirements for PV systems are covered in 690.43. These requirements include the bonding and grounding requirements for exposed metal parts of PV systems such as metallic module frames, electrical equipment, and conductor enclosures [690.43 (A)].

Does a PV array need a grounding conductor?

Since the PV array and other electrical equipment in PV system, e.g., inverters, are often located remotely from one another, 690.43 (B) requires that an equipment grounding conductor (EGC) be run from the array to other associated equipment.

Where should a grounded PV system conductor be grounded?

The location where grounded PV system conductors must be grounded is covered in 690.42. It states that a grounded PV array must be grounded at the ground-fault protection device--and at no other location.

Which support methods are sufficient for PV cable?

Given the fact that PV cable is essentially an improved version of USE-2, it logically follows that the support methods required for USE-2 are sufficient for PV cable. A brief review of the Article 338, Service-Entrance Cable: Types SE and USE, is helpful for support requirements of type USE-2 cable.

Do 2 wire PV source and output circuits need to be grounded?

Rule 64-064 2) permits 2 wire PV source and output circuits to be functionally grounded and Rule 64-064 10) does not require them to be connected to a grounding conductor or grounding electrode.

Do PV systems need exposed cable wiring?

A common thread in the installation of electrical systems is that the work be done in a neat and workmanlike manner [NEC 110.12] and that conductors are not exposed to physical damage [NEC 300.4]. These two important concepts are at times overlooked in PV systems when installing exposed cable wiring methods.

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A series of experimental studies on various PV support structures was conducted. Zhu et al. [1], [2] used two-way FSI computational fluid dynamics (CFD) simulation to test the influence of ...

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Utility scale systems (5 MW or greater) present several challenges for properly designing grounding system for personnel protection concerns. This discussion, given by David Lewis, ...

Solar photovoltaic lightning proof grounding lug components collect the static electricity on the photovoltaic module and mounting support,and lead it to the lightning proof grounding parts ...

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