

What are the mounting and grounding procedures for a PV module?

The PV module mounting and grounding procedures used should follow the instructions provided in the installation manuals for the racking system and the PV module. The mounting structure or racking system wind loading and snow loading requirements are met, and the array setbacks from the roof edge meet fire codes.

Why is proper grounding of a photovoltaic power system important?

Proper grounding of a photovoltaic (PV) power system is critical to ensuring the safety of the public during the installation's decades-long life. Although all components of a PV system may not be fully functional for this period of time, the basic PV module can produce potentially dangerous currents and voltages for the life of the system.

Does a photovoltaic system have a DC grounding system?

Photovoltaic systems having dc circuits and ac circuits with no direct connection between the dc grounded conductor and ac grounded conductor shall have a dc grounding system. The dc grounding system shall be bonded to the ac grounding system by one of the methods in (1), (2), or (3).

Do PV systems have ground-fault detection requirements?

To address this issue, PV systems have ground-fault detection requirements that account for the potentially low fault current. These requirements are described in the Ground Faults and Ground-Fault Protection Devices part of this paper.

Can ungrounded PV systems be used with isolated inverters?

Most PV systems in the United States use isolated inverters with internal transformers (isolated inverters in the ROW) as of 2012, but non-isolated inverters and ungrounded PV systems are being certified/listed and are making market inroads. Note that ungrounded arrays can also be used with isolated inverters.

How do I connect a DC GEC to a utility-interactive PV system?

On utility-interactive PV systems, the connection between the DC grounded circuit conductor and the grounding system is usually made through the ground-fault protection device (GFPD) internal to most non-battery based utility-interactive inverters. UL Standard 1741 requires a provision be made for the internal connection of a DC GEC.

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This report provides field procedures for testing PV arrays for ground faults, and for implementing high-resolution ground fault and arc fault detectors in existing and new PV system designs.

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