

Solar container communication station Energy Management System Point C Grounding





Overview

What is a grounding conductor (EGC) in a solar inverter?

The equipment grounding conductor (EGC) from the main panel and PV arrays are connected to the Ground terminal and Ground bus in the inverter. Both grounding electrode conductors (GEC) are connected to the individual grounding rod used for both systems.

What is the difference between AC and DC grounding?

The concept and purpose of grounding in DC systems, such as solar panels and photovoltaic arrays, are the same as in AC systems. However, the grounding process and methods differ slightly, offering multiple options, such as separate grounding or combined grounding.

What is a DC grounding conductor?

The DC grounding conductor (sometimes called a bonding conductor) must be continuous and properly sized to handle fault currents. All equipment used to support or mount PV modules must be bonded through the EGC. The grounding system must be labeled, listed, and identified in accordance with UL 2703.

How do I ground a DC system in a PV array?

However, there are multiple methods for grounding DC systems in PV arrays. The recommended approach is to use a separate DC grounding electrode for PV arrays and frames, as this enhances protection against lightning and transient voltage. For lightning protection associated with grounding systems, refer to NFPA 780 and NEC 250.106.



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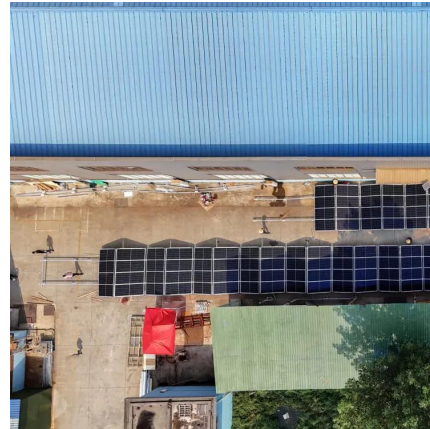
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