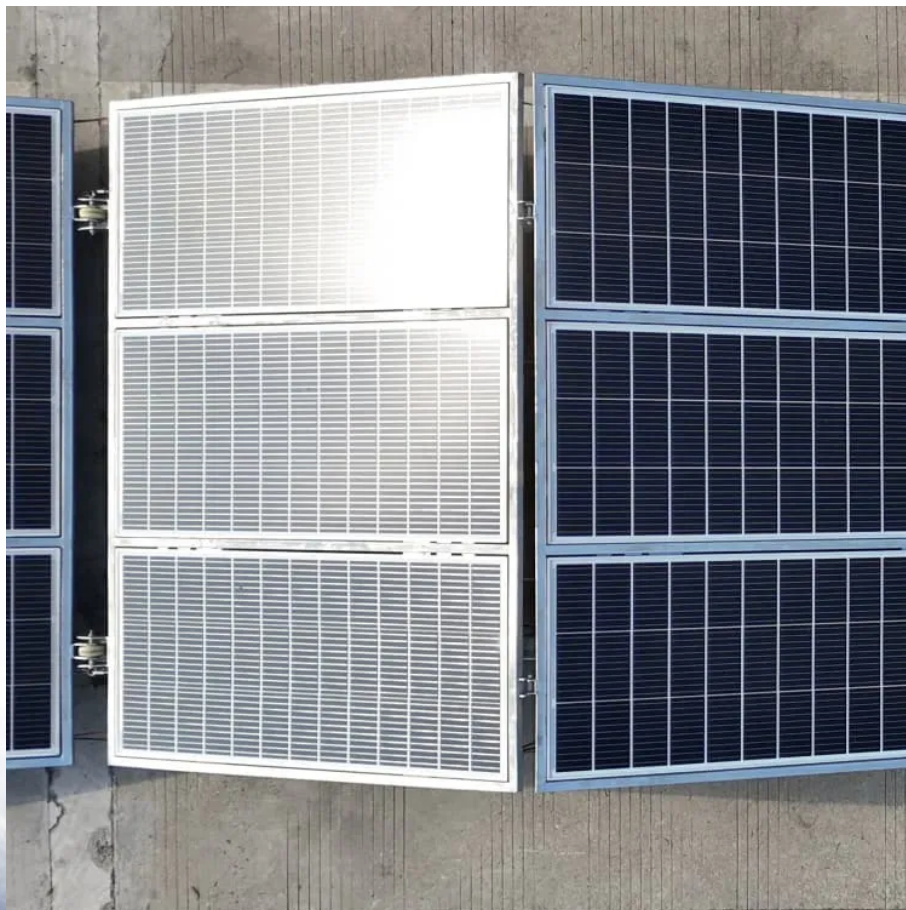


Grounding requirements for hybrid energy equipment in solar container communication stations





Overview

Do PV systems need grounding?

It is a mandatory practice required by NEC and IEC codes to protect both equipment and personnel from damage and electric shock hazards. This article covers grounding in PV systems, which differs slightly from standard grounding systems.

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.

When should a grounding system be combined with a GEC?

If separate grounding systems and grounding electrode conductors (GECs) are installed in a structure or different buildings, they should be combined at a common point (busbar or terminal) and connected to the common grounding electrode system.

Which grounding electrode conductor should be used for grounded PV systems?

For grounding electrode conductors used in combined AC EGC and DC GEC for grounded PV systems, the AC equipment grounding conductor, sized according to the larger of 250.122 or 250.166, can serve as the DC grounding electrode conductor (690.47 (C) (3)).



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