

Steps for replacing a photovoltaic combiner box



AI Overview

Replacing a PV combiner box involves safely disconnecting the old box, mounting the new one, wiring the DC inputs, installing overcurrent protection, and ensuring proper grounding and surge protection.

1. Safety and Preparation

Before starting, de-energize the PV system completely to prevent electric shock. Gather all necessary tools and materials, including the new combiner box, mounting hardware, wire strippers, screwdrivers, appropriate personal protective equipment (PPE), and any replacement fuses or breakers. Verify that the new combiner box meets the system's voltage, current, and protection requirements.

2. Remove the Old Combiner Box

- Inspect the existing box and document the wiring layout for reference.
- Disconnect all DC input strings from the terminals, ensuring correct polarity is noted.
- Remove grounding connections and any surge protection devices (SPDs).
- Unscrew and carefully remove the old combiner box from its mounting location.

3. Choose and Mount the New Combiner Box

- Select a location close to the PV array to minimize DC cable runs, avoiding areas...

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