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Title: Energy storage cabinet grounding resistance

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Should a cabinet be grounded if it is not painted?

If the cabinet is not painted, zinc coating treatment inside ensures that all mechanical joints conduct properly. If the cabinet is painted, all components and installation plates should be grounded via a cable to the grounding busbar. Body grounding does not replace a protective earth connection.

Do I need a grounding cable if my cabinet is painted?

If the cabinet is painted, all components and installation plates should be grounded via a cable to the grounding busbar. Body grounding does not replace a protective earth connection. PE conductors are always required from the PE terminal of the device to the PE busbar if there is body grounding or not.

Why is EMC grounding important?

Grounding is an essential part of cabinet assembly. ensures that installation is safe. That means protection and safety design according to short circuit capability. and improves immunity against electromagnetic interference. Note: EMC grounding reduces reactance for high frequency currents!

Why is the shield of the wires grounded close to the terminals?

The shield of the wires is grounded close to the terminals in order to avoid disturbances. This slide should explain groundings inside cabinets with different cabinet surfaces. If the cabinet is not painted, zinc coating treatment inside ensures that all mechanical joints conduct properly.

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