

# UPS battery cabinet prompts grounding



## Overview

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Center-tapped or grounded battery systems are not possible with battery cabinet systems. Figure 7 illustrates how a simple. A grounding system allows circuit protection to clear a ground fault, and provides paths for diverting surge current away from the UPS and for removing undesirable currents from the critical load. Connect a grounding conductor to the grounding lug (or screw) on the rack (or cabinet), then connect the grounding conductor to a grounding rod. Some older specifications require that the DC circuit be “floated” or galvanically isolated to ostensibly provide a. This is accomplished by making the continuous availability of UPS supply in normal mode and the availability of raw power sources like transformer or generator in bypass mode when there is a prolonged power outage or when the UPS supply has become faulty. FUTURE REFERENCE! SPECIAL SYMBOLS: The following are examples of symbols used on the UPS, or within this manual to alert you to important information. Please familiarize yourself.

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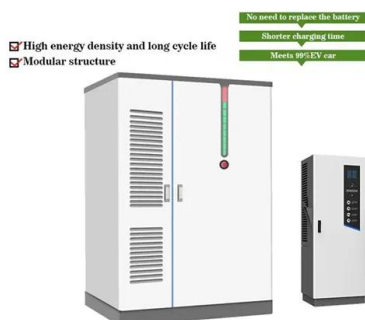


### [Preferred battery cabinet grounding configuration. Vertiv Liebert](#)

Whether the battery system is open-rack or cabinet, the metal rack parts or cabinet must be grounded to the UPS module ground bus. Figure 7 illustrates how a simple, one-cabinet system would be ...

### [Guidelines for Earthing in UPS installations](#)

The frame of the UPS should be connected to the neutral of the UPS and then to a nearby earth electrode in order to create an effective TNS earthing system at the UPS itself for avoiding neutral to ...



### [Connecting UPS Grounds and Neutrals . EC& M](#)

For multiple battery cabinets incorporating battery disconnects, the cabinets are bolted together, forming a single lineup with the UPS. The cabinet grounds are inherently connected to the UPS ground bus ...

### KEN'S KORNER

Grounding Issues: All battery racks and cabinets associated with UPS systems should have NEC code green wire grounds linking all battery racks.



[Uninterruptible Power Supply Three-Phase User Manual](#)

UPS comes equipped with grounding terminal, in the final installation phase, connect grounding/earthing wire to the external UPS battery cabinets or appropriate grounding terminals.



[System earthing arrangements for installations comprising UPSs](#)

When batteries are not installed in a cabinet, i.e. generally in a special room, the measures presented at the end of this chapter should be implemented. Note: The TN system ...



[Eaton Powerware Intermediate Training](#)

The requirement for battery ground fault, or DC ground fault detection, continues to appear in some UPS specifications. The (faulty) line of reasoning is, apparently: "I need a battery ground fault alarm to ...



### Why can't the battery cabinet be grounded

Grounding - Ensure that all batteries are installed in the EG4 battery rack using the mounting hardware provided. Connect a grounding conductor to the grounding lug (or screw) on the rack (or cabinet), ...



### Overview of Grounding of APC UPS Power Supply Unit (part 2)

The APC UPS body, its casing, battery cabinet (rack), etc. need to be connected to the electrical grounding device using grounding wires. Generally speaking, the UPS body does not ...

### Earthing is a Critical Safety Feature in UPS Systems

Earthing (or grounding) is a critical safety feature in Uninterruptible Power Supply (UPS) systems. It ensures the safe operation of the UPS and connected devices by providing a path for ...



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