

How to protect solar container communication station lead-acid batteries





Overview

Properly storing and handling lead acid batteries involves keeping them upright in a cool, dry location, maintaining a partial charge, cleaning terminals, and using safety gear to prevent acid exposure. How do you store a lead acid battery?

Store lead acid batteries in a ventilated area at 50°F–80°F (10°C–27°C). Ensure they're charged to 50–70% capacity before storage. Check voltage monthly and recharge if below 12.4V. Keep terminals clean and coated with anti-corrosion gel. Use non-conductive racks to prevent short-circuiting and avoid stacking batteries unless designed for it.

What is the main hazard from lead acid batteries?

The main hazard from lead acid batteries is due to their highly corrosive electrolyte / battery acid which is composed of sulphuric acid and water. Sulphuric acid can easily corrode metals and cause significant damage if it contacts a body part, so storage of lead acid batteries should be carefully managed to avoid risks from this.

Are lead acid batteries a hazard?

Battery acid spillage. Another hazard from lead acid batteries is the generation of flammable gases hydrogen and oxygen during battery charging.

How should battery acid be stored?

Battery acid must be stored safely so they are not likely to fall and become damaged, or spill and leak battery acid outside of a spill tray. This includes when packages are stacked on top of each other, noting that the batteries are heavy and if stacked too high.



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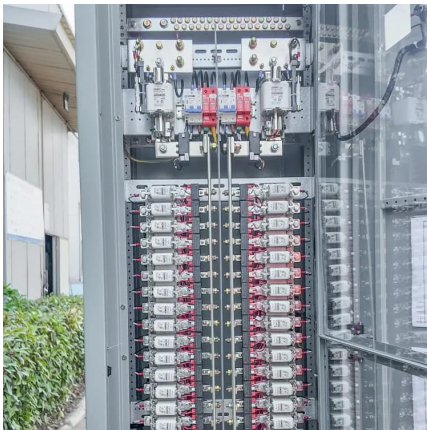
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