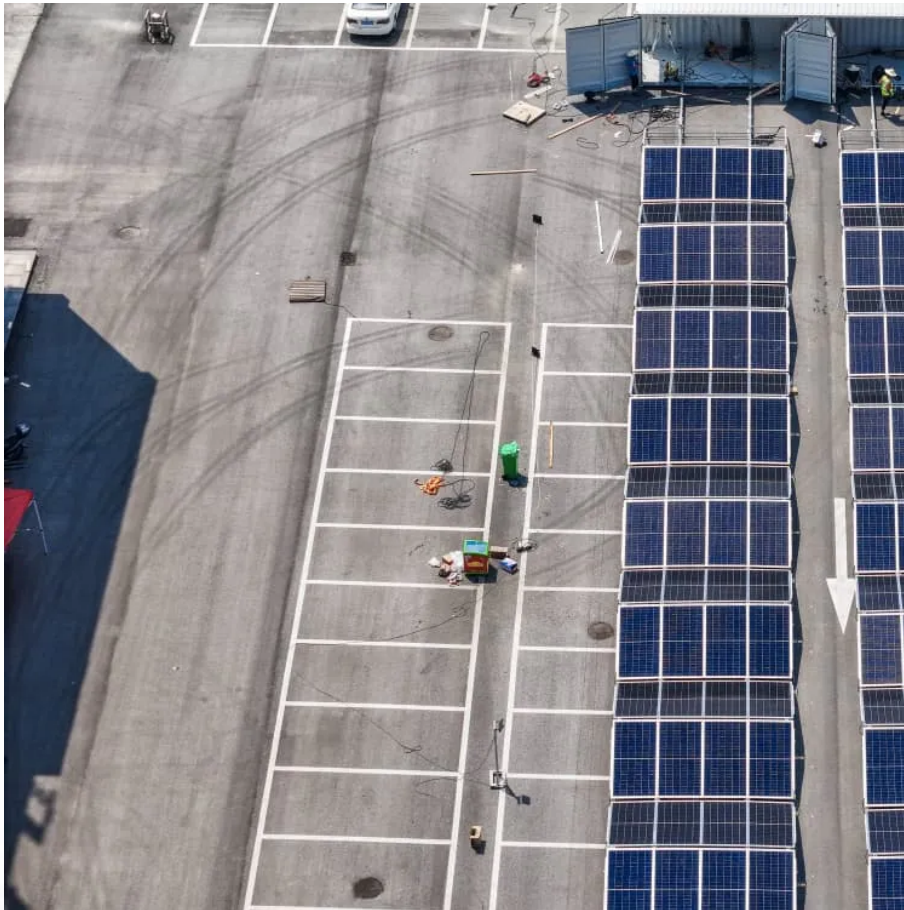


Base station lead-acid battery charge and discharge times





Overview

Watering is the single most important step in maintaining a flooded lead acid battery; a requirement that is all too often neglected. The frequency of watering depends on usage, charge method and operation.

How to charge a lead-acid battery?

The charging method of lead-acid battery needs to choose different charging equipment according to different situations, usually the charging method of lead-acid battery has fixed-current charging, fixed-voltage charging, rapid charging (pulse charging) and so on, and it is recommended to use pulse charging, which is described as follows.

How long does a lead acid battery last?

The charge time is 12–16 hours and up to 36–48 hours for large stationary batteries. With higher charge currents and multi-stage charge methods, the charge time can be reduced to 8–10 hours; however, without full topping charge. Lead acid is sluggish and cannot be charged as quickly as other battery systems. (See BU-202: New Lead Acid Systems).

Can a lead acid battery be discharged deep?

Sealed lead-acid batteries are not designed for deep discharges. Repeatedly discharging them below their recommended voltage (typically below 10.5V for a 12V battery) causes irreversible damage (permanent sulfation and plate shedding) and drastically shortens their lifespan. Charge the battery before it reaches a deeply discharged state.

How to care for lead-acid batteries?

The charging and discharging of lead-acid batteries need daily maintenance, pay attention to the charger specifications, charging environment, charging voltage when charging, and avoid deep discharge when discharging, so that the lead-acid batteries can be used for a longer period of time.

Can lead acid batteries be charged quickly?



Lead acid is sluggish and cannot be charged as quickly as other battery systems. (See BU-202: New Lead Acid Systems) With the CCCV method, lead acid batteries are charged in three stages, which are constant-current charge, topping charge and float charge.

How often should a lead acid battery be charged?

This mode works well for installations that do not draw a load when on standby. Lead acid batteries must always be stored in a charged state. A topping charge should be applied every 6 months to prevent the voltage from dropping below 2.05V/cell and causing the battery to sulfate. With AGM, these requirements can be relaxed.



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[Innovative IGBT-based charging systems for improved submarine battery](#)

Abstract This innovative charger-discharger utilizing the technology of IGBT, designed for lead-acid submarine batteries, is discussed in the present manuscript. Within the ...

[The Dos and Don'ts of Charging Sealed Lead-Acid Batteries](#)

Charge after every use: Consistent recharging after discharge, no matter how small, keeps the battery in optimal condition. Apply full saturation on every charge: Ensure the battery receives ...



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