

## ContainerPower Energy Solutions

# Does the outdoor power supply have lead-acid batteries



## Overview

---

These power supplies make use of lead-acid batteries. Can a power supply equalize a lead acid battery?

You can also use the power supply to equalize a lead acid battery by setting the charge voltage 10 percent higher than recommended. The time in overcharge is critical and must be carefully observed. (See BU-404: What is Equalizing Charge) A power supply can also reverse sulfation.

Can lead acid batteries be stored outside?

Nowadays modern plastics are impervious to acid so there is no risk of this happening. Myth: It is okay to store lead acid batteries anywhere inside or outside. Fact: It is good to store lead acid batteries in cool places because the self-discharge is lower but be careful not to freeze the battery.

Can a lead-acid battery be operated at a lower voltage?

If the lead-acid battery would be operated at lower voltages to be near to the  $U_{mpp}$ , meaning lower SOC, the battery would age very fast due to sulfation. Alternatively, the lead-acid battery capacity could be increased to be able to operate at lower voltages while keeping the SOC above 50%.

Are lead-acid batteries cheaper than lithium-ion batteries?

An interesting study by Anuphapparadorn et al. (2014) on economic analysis of standalone PV systems with lead-acid and lithium-ion batteries, also found that a system with lead-acid battery was economically cheaper than a system with lithium-ion battery due to its higher initial investment cost.

Does lead-acid SHS have a low power area?

Comparing lead-acid SHS systems operated at direct coupled topology to a system operated at maximum power point, it can be also seen that this system had some losses. When the battery was fully charged, its voltage was also away from the  $U_{mpp}$  of the PV panel; hence the system was operated at

a lower power area.

## Does the outdoor power supply have lead-acid batteries

---

### Contact Us

---

For catalog requests, pricing, or partnerships, please visit:  
<https://websparafotografos.es>