

## ContainerPower Energy Solutions

# Charge and discharge times of lead-carbon energy storage batteries



## Overview

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Tests have shown that our lead carbon batteries do withstand at least five hundred 100% DoD cycles. The tests consist of a daily discharge to 10,8V with  $I = 0,2C_{20}$ , followed by approximately two hours rest in discharged condition, and then a recharge with  $I = 0,2C_{20}$ .

Traditional lead-acid batteries are limited in their ability to operate in environments where reliable power is not available or regular discharges occur without a subsequent recharge. These incomplete cycles left Lithium-Ion as one of the only viable options for many applications.

The self-discharge characteristics of the RVC-based lead-acid cell were assessed in this study by measuring the dis-charge voltages and capacities after storage for different time periods, when disconnected from any circuits.

This paper firstly starts from the principle and structure of lead-carbon battery, then summarizes the research progress of lead-carbon battery in recent years, and finally looks forward to the development direction and trend of lead-carbon battery in the future.

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