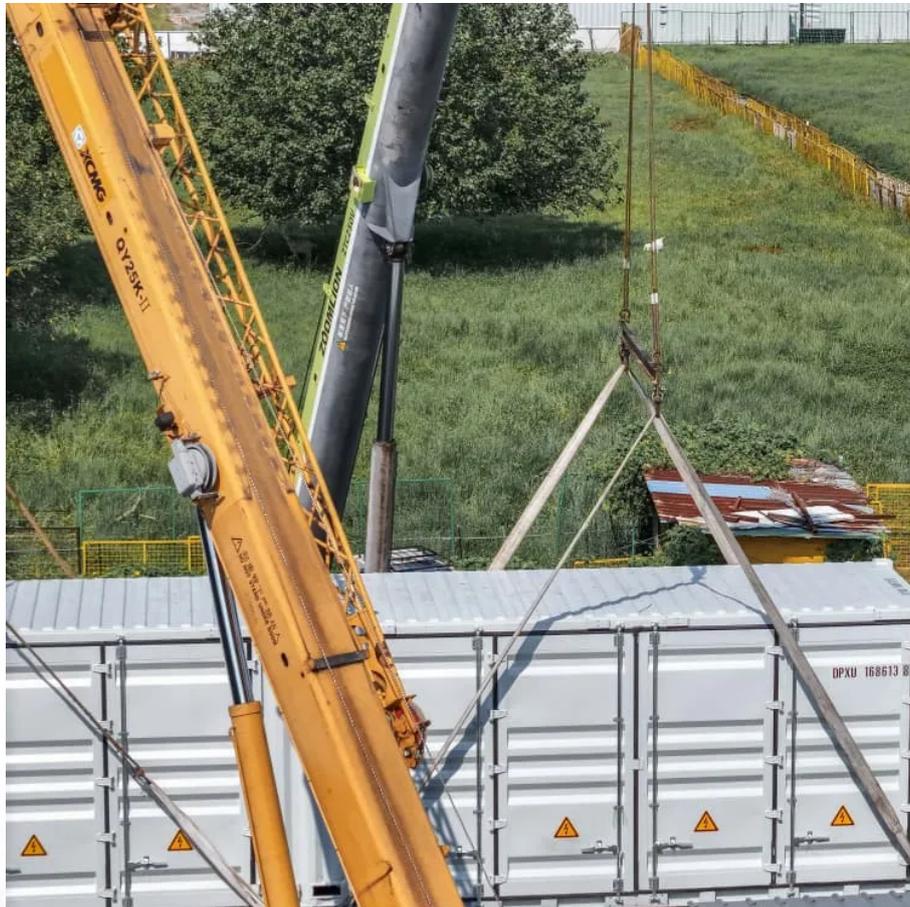


# Solar container lithium battery pack continuous discharge rate





## Overview

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What is a lithium battery discharge rate?

The discharge rate, measured in C-rate, is a specification that tells you how fast a lithium battery can discharge its stored energy. The C-rate refers to the current output from the battery relative to its capacity (measured in Ah or Ampere-hours) and refers to the current the battery delivers relative to its total charge capacity.

What is a lithium iron phosphate battery?

Fig 1. Lithium Iron Phosphate (LFP) Cell The battery cell adopts the lithium iron phosphate battery for energy storage. At an ambient temperature of 25°C, the charge-discharge rate is 0.5P/0.5P, and the cycle life of the cell (number of cycles)  $\geq 8000$  times.

What is a continuous discharge C-rate?

The continuous discharge C-rate is the maximum current at which a cell can be fully discharged while keeping its surface temperature safely below the thermal limit. Most battery management systems (BMS) enforce a maximum operating temperature range, typically 60–80 °C, to prevent thermal failure.

How does a high discharge rate affect a battery?

Another crucial aspect affected by discharge rate is the battery's lifespan. Frequent high discharge rates can cause more heat and internal stress on the battery's internal battery cells, leading to faster degradation over time. This means that high discharge rates can shorten the overall cycle life / lifespan of the battery if used excessively.



## Solar container lithium battery pack continuous discharge rate



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