

## SolarTech Power Solutions

# Battery cabinet discharge current is too large



## Overview

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Discharge current limit (DCL) is being ignored. - Q&A and troubleshooting - Victron Community Discharge current limit (DCL) is being ignored. For a three-phase system, we use three Multi RS Solar inverters. A BMS control system is used for the battery, which includes a DCL. However, this limit is.

If the discharge current is too high an element of the cell is likely to degrade or fail. Hence the need to understand the cell manufacturers maximum current specification. This post has been built based on the support and Overdischarge of the battery may bring catastrophic damage to the battery.

For example when I charge a 3.7V cell with a current of 2A and discharge it with 3A, than the actual discharging current will be 2A. But what happens when the cell is empty (voltage is 3V)?

Will I be damaging it by discharging even more?

Thank you guys! If your charger is supplying 2A and your load.

For a 60v 20ah pack, the maximum continuous discharge current can be as high as 50 amps, but the charge current is max 5A. Why?

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The connections between cells clearly can support high currents, otherwise it cannot discharge with 50A without damage. Why is the charging max so low and what happens if.

The maximum discharge current is a critical parameter that significantly influences a battery's performance. As a supplier of SMF AGM (Sealed Maintenance-Free Absorbent Glass Mat) batteries, I have witnessed firsthand how this factor can make or break the effectiveness of our products in various.

With grid power it switches to bypass mode nearly instantly when I exceed the configured "Discharge current limit". Without grid power it doesn't even after 5min at 150% of the configured limit. Anyone else experiencing this?

Sure seems like a bug. With grid power it switches to bypass mode nearly. What happens if discharge current is too high?

If the discharge current is too high an element of the cell is likely to degrade or fail. Hence the need to understand the cell manufacturers maximum current specification. This post has been built based on the support and sponsorship from: Eaton Technologies, About:Energy, AVANT Future Mobility, Quarto Technical Services and TAE Power Solutions.

What happens if you charge a battery too much?

If you go beyond these limits by charging or discharging too much, you'll start encountering problems that break your battery. Discharging a cell without a protection circuit will eventually break it, as in it can get FULLY discharged (voltage drops to maybe 1-2 volts) and will not recharge (at least not easily, if at all, can take a few hours).

Can a battery open if the charging current is too high?

Also the battery management system probably included in the battery will open the charging fets if the charging current is too high. @A.R.C., "While charging, the battery is getting very hot" - no, under normal charge the most incoming energy goes into chemical transformation, so the batteries remain relatively cool.

How long should a lithium battery be charged & discharged?

If your battery has a working capacity of 6Ah, you could charge it at a rate of 2A for 3 hours, then discharge it at a rate of 3A for 2 hours (assuming the battery is rated for that). Working voltage range varies between batteries, lithium cells are considered fully charged at 4.2V and fully discharged at 3.7V.

Will discharge current limit be exceeded if no grid is available?

Discharge Current Limit" is exceeded?

Yes it will. It will switch to grid if available. If no grid, i think it has a set time of forgiveness and then poof. Anyone know how long that "time of forgiveness" is?

I exceeded it for 2 min and it still didn't trip (without grid). With the grid it switches to bypass mode right away.

What happens if a battery is already empty?

If the cell is already empty, then you are over-discharging the cell and it will be damaged. Don't confuse battery capacity (Amp-Hours) with discharge rate (Amps). If your battery has a working capacity of 6Ah, you could charge it at a rate of 2A for 3 hours, then discharge it at a rate of 3A for 2 hours (assuming the battery is rated for that).

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