

# Batrium Forum

Request to have the calibration of the CellMate-K9 on the software:

- Thanks for the recommendation. This feature is something that our team will work on when we get the chance, in the same manner, that this can be done on the other existing individual cell monitors.

**Please know that balancing at 3.425V all the time is bad for a whole bunch of reasons.**

See below:

- The passive balancing cell modules are not designed to balance all the time, they will not last long term.
- At this voltage, the calibration can have adverse effects on the battery's SoC as it will be thinking to adjust things when the battery is ok to start with.
- At this resting voltage of 3.425V there is a really wide SoC% range and so picking this value and thinking this is right and adjusting accordingly is suboptimal and will have adverse effects.
- The suggested recommended practice of above 3.55V is the recommended balancing when full. Running substantially lower will give false outcomes.
- Please know that **Auto Balance is not recommended for LiFePO4.**
- We have an additional extra balancing mode for LiFePO4 that will document soon, this works to continue to run the bypassing process when any cell reaches the bypass threshold (i.e. 3.5v), to continue even after charging has stopped for a period of time even after the battery returns to 3.425V when the charging pauses. This means that the capacity of that cell can be reduced when charging resumes, allowing other cells to catch up and will repeat the same cycle until all have achieved the balancing voltage. This works far better than cell voltage matching when not full or empty. Once the pilot has been completed we will publish the new method **Latched** mode soon.

Calibration adjustment at 22mV is within the 0.5% tolerance of the product and pushing beyond the calibration reference of the equipment and then hence even tighter than the LiFePO4 recommended operating threshold (see above list).

Was ergibt sich daraus für Einstellungen im Batrium selbst?

Vorschlag:

## Hardware

System CellMon Shunt Expansion Integra

Undo Save Default Advanced

Batt Type Custom

Lo Cell Voltage CV2 2.80 V

Nom. Cell Volt CV7 3.20 V

Bypass Volt CV9 3.50 V

Hi Cell Voltage CV11 3.65 V

## Control Logic / Remote

56.3V, weil CellMons 0.3V zu wenig messen

Charge Targets Template Ramped Targets

State Normal Power Ramped Limited

Voltage	56.3 V					56.3 V
Current	280.0 A	200.0 A	80.0 A	4.0 A		2.0 A
SoC%		85.0 %	97.5 %	99.5 %		100.0 %
	#Max	#3	#2	#1		#Low

Einstellungen im DVCC:

Maximum charge Voltage muss größer gleich der im Batrium eingestellten Voltage sein!

< DVCC 11:57

CAUTION: Read the manual before adjusting

DVCC

Limit charge current

Maximum charge current 140A

Limit managed battery charge voltage

Maximum charge voltage 56.8V

Pages Menu

Revision #3

Created 7 March 2023 10:38:57 by physi

Updated 7 March 2023 10:58:46 by physi