

# Victron & Redflow ZBM

<http://www.redflow.com.au/>

## Compatible Victron products

- All 48V Multis and Quattros.
- All 48V solar chargers
- Adding a Color Control GX is recommended but not required

## Charge profile

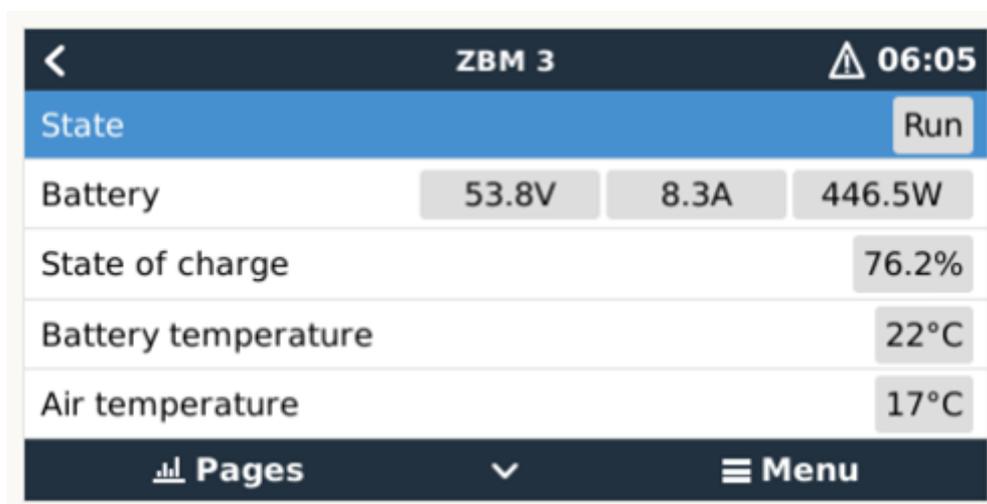
1. Charge voltage 57.6V (up to 50 Amps per battery, and current per battery self-limits if you limit the voltage)
2. Linear charge all the way from empty to full (all charge phases are the same - same 'flat' voltage).
3. No need for any sort of battery 'conditioning' cycling at all

Charger settings:

1. Set both absorption and float voltage to 57.6V
2. disable storage mode.
3. disable bulk protection(?? Simon?)
4. using Assistants, such as the Hub-4 Assistant, is possible but not required.

## Color Control GX

The Color Control GX has built in support for the Redflow ZBM battery and its Modbus protocol.



The screenshot shows the Victron Color Control GX interface for a ZBM 3 battery. The top bar displays a back arrow, the battery name 'ZBM 3', and the time '06:05'. Below this, the 'State' is 'Run'. The main display area shows the following data:

Parameter	Value
Battery	53.8V 8.3A 446.5W
State of charge	76.2%
Battery temperature	22°C
Air temperature	17°C

The bottom bar contains a 'Pages' icon, a dropdown arrow, and a 'Menu' icon.

1. Connect the CCGX to each battery in the system via Modbus-RS485, (our RS485 to USB interface is needed for that, ASS0305700xx).

2. Monitoring the battery: battery voltage, current, state of charge, temperature and many more ZBM specific alarms and flags.
3. Control the battery: set it to run mode, initiate a maintenance cycle, clear the alarms and more.
4. Configure the battery: the CCGX will automatically assign a unique Modbus address to each battery. Just make sure to connect them, slowly, one by one. After connecting one, wait for it to show up on the CCGX, and then connect the next one. Additionally, it is possible to manually change the Modbus address of the battery.

## Disqus

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<https://www.victronenergy.com/live/> - **Victron Energy**

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[https://www.victronenergy.com/live/battery\\_compatibility:redflow\\_zbm?rev=1465594125](https://www.victronenergy.com/live/battery_compatibility:redflow_zbm?rev=1465594125)

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