

GRNcmu MEB

Next generation passive cell management unit
designed for manufacturer specific celltab plugs



2021

Powered by pro-LOX Netherlands



*"Coming together is the beginning. Keeping together is
progress. Working together is success."*

— Henry Ford



Explore the solid possibilities of a flexible battery management system

lead your project to success

- VAG MEB P&P version – connect MEB 8S & 12S Modules with OEM Cell tab
- 2 Port and 4 Port version available
- High End PCB design with Powerful Dual Core Processor
- Easy to install – automatic cell detection and communication setup to the GRN can bus network
- 1 – 12 S cell management – self sensing
- 1,5V – 4,5 V cell voltage range
- passive balancing up to 1,3 A @ 4,5V
- 2 external temperature sensor inputs
- All lithium chemistries – no limits on battery pack design
- Support for low and high voltage systems
- Easy expandable with GRN connector cables up to 50 GRNcmu and 900 cells
- Resolution of 0.001V - high accuracy of $0.015 \text{ mV} \pm 0.004 \%$
- Firmware upgrades via GRN Can bus network
- GRN Watchdog algorithm take care of your configuration
- Benefit from the GRN product family and start your project

Get in touch: www.grnbms.com c.hassink@grnbms.eu

Technical Specs

Absolute maximum ratings:

Input Voltage	9V – 14 Vdc
Input Current	120 mA
Temperature Range:	-20°C - +80°C
CAN Bus:	±80V Fault Protection CAN V2.0B up to 1 Mbps
Battery pack voltage	1,5V – 54V per port
Cell voltage accuracy	0.015 mV ± 0.004 %
Balancing current	1,3 A (@4.5V)
Temp sensor inputs	2x 10K NTC
Max CMU in series	50

Dimensions:

2 Port Size (W x H x D):	160mm x 120mm x 20mm
4 Port Size (W x H x D):	270mm x 120mm x 20mm