Product Sheet



7-85 CAN BMS PowerSafe

40A

CAN BUS

EN61508

Parallelizable

SIL2 compliant

Powerbox Inside



eMobility

Energy storage



Management of 7 or 8 lithium cells in series*, compatible with all cell Cells management technologies (NMC, LiFe, LiPo...) Management of 4 NTC temperature sensors : Cell voltages: +/- 5 mV • Temperatures: +/- 1°C Management of 6 NTC temperature sensors. 3 digital measurements used by the software * Factory setting 3 analogic measurements used by the hardware redundancy **Protections** O Hardware redundancy for voltage and temperature measurements in order to reach a high level of safety (SIL2 of EN61508 standard) O Overcharge and undercharge, tunable by software Overtemperature and undertemperature, tunable by software Overcurrent: 2 levels in discharge, 1 level in discharge tunable by software Short circuit hardware protection (resettable electronic fuse) • Above 41 A for more than 100 µs O Passive balancing with a 150 mA bypass current per cell (on the BMS) Balancing Power Box Integrated power box with MOSFET technology: • 40 A continuous current in charge/discharge 40 A maximum peak current in charge/discharge O Bidirectional measurement of the battery current O Precharge circuit included on the BMS No heatsink required Integrated 12V isolated power supply to power an external controller Smart functions SOC and SOH calculation O Advanced self-diagnostic of the board Communication by CAN bus 2.0B (opto-isolated) Possibility to manage the motor controller and the charger Advanced supervision software Black box integrated with defaults history storage and life counters Possibility to connect two packs in parallel Power Supply of the BMS directly on the battery pack supply/consumption O Low consumption in sleep mode: < 500 μA

0 100 mm x 180 mm x 12 mm

O Can be potted to be used in harsh environment

Mechanical format