Product Sheet



8-16S BMS PowerSafe

750A

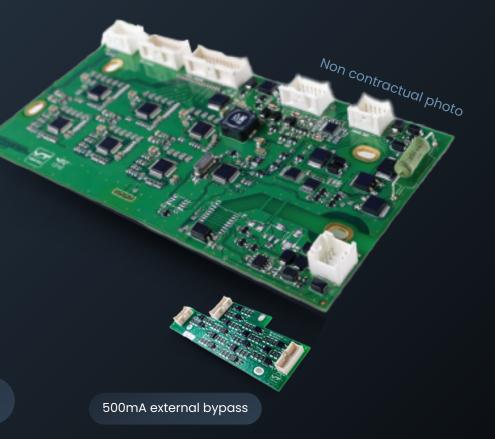
CAN BUS

EN61508

Parallelizable

SIL2 compliant

External Powerbox



eMobility

Energy storage



Mechanical format

Management of 8 to 16 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 analog 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) 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) Passive balancing with a 500 mA bypass current per cell Balancing (with an external bypass board) **Power Box** O Requires an external power box (contactors, hall effect current sensor) O Bidirectional measurement of the battery current by an external hall effect sensor O Charge and discharge management External power box management up to 750 A: • Management of an external electromechanical contactor Precharge circuit (included on the board) **Smart functions** SOC and SOH calculation O Advanced self-diagnostic of the board O Communication by CAN bus 2.0B (can be opto-isolated) O Possibility to manage the motor controller and the charger Black box integrated with defaults history storage and life counters Possibility to connect up to 10 packs in parallel Hot swap capability O Possibility to reprogram the firmware of the BMS by CAN Bus Power Supply of the BMS directly on the battery pack supply/consumption Low consumption in sleep mode: < 500 μA</p> o 90mm x 172mm x 12mm (BMS) 65mm x 170mm x 12mm (500mA Bypass)

O Can be potted to be used in harsh environment