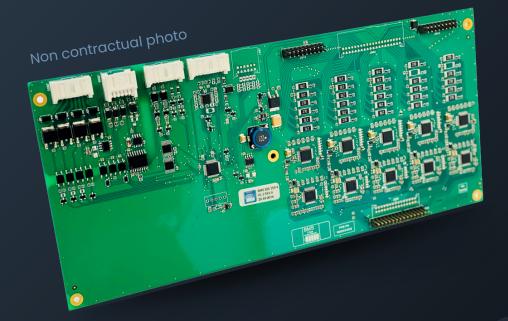
Product Sheet



19-30S BMS PowerSafe



750A

CAN BUS

EN61508

Parallelizable

SIL2 compliant

External Powerbox

Automotive

Energy storage



Mechanical format

Cells management Management of 19 to 30 lithium cells in series* compatible with all cell technologies (NMC, LiFe, LiPo,...) Management of up to 15 NTC temperature sensors : • 10 digital measurements used by the software 5 analogue measurements used by the hardware redundancy Measurements accuracy: Cell voltages: +/- 5 mV * Factory setting • 3 analogic measures used by the hardware redundancy **Protections** Hardware redundancy for voltage and temperature measurements in order to reach a high level of safety (equivalent to 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) Balancing Passive balancing with a 150 mA bypass current per cell (on the BMS) **Power Box** O Bidirectional measurement of the battery current with a hall effect sensor Requires contactors and hall effect current sensor O Charge and discharge management O Power box management up to 750 A: • Command of up to 4 external 12V electromechanical contactors **Smart functions** SOC and SOH calculation O Advanced self-diagnostic of the board Communication by CAN bus 2.0B (opto-isolated)** Motor controller management by CAN bus Charger management by CAN bus ** Requires an external Advenced supervision software 12V power supply Black box integrated with defaults history storage and life counters O Possibility to connect several packs in parallel using an external EMS (small additional board) Power Supply of the BMS directly on the battery pack supply/consumption O Low consumption in standby mode: < 500 μA

O Actual format: 270 mm x 125 mm x 12 mm

(possible in 210 mm x 125 mm x 12 mm)