Product Sheet





750A

CAN BUS

EN61508

Parallelizable

SIL2 compliant

External Powerbox





Technical Description



Cells management	0	Possibility to connect in series several BMS in order to manage a battery pack with a voltage up to 1000 Volts
	0	Management of 8 to 18 lithium cells in series* compatible with all cell technologies (NMC, LiFe, LiPo,), +/- 5 mV of accuracy.
* Factory setting	0	Management of 6 NTC temperature sensors : 3 digital measurements used by the software 3 analogic measures used by the hardware redundancy
Protections	0	Hardware redundancy for voltage and temperature measurements in order to reach a high level of safety (SIL2 of EN61508 standard)
	0	Overcharge and undercharge, tunable by software
	0	Overtemperature and undertemperature, tunable by software
	0	Overcurrent : 2 levels in discharge, 1 level in discharge tunable by software
	0	Short circuit hardware protection (resettable electronic fuse)
Balancing	0	Passive balancing with a 150 mA bypass current per cell (on the BMS)
Power Box	0	Bidirectional measurement of the battery current with a hall effect sensor
	0	Charge and discharge management
	0	Power box management up to 750 A : • Command of an external electromechanical contactor • Command of a precharge circuit (included on the board) • Possibility to control two additionnal contactors
Smart functions	0	SOC and SOH calculation Advanced self-diagnostic of the board
	0	Communication by CAN bus 2.0B (opto-isolated)
	0	 Motor controller management by CAN bus
** Requires an external		Charger management by CAN bus
12V power supply	0	Advenced supervision software
Power	0	Supply of the BMS directly on the battery pack
supply/consumption	0	Low consumption in standby mode: < 500 µA
	0	100 mm x 180 mm x 12 mm
Mechanical format	0	Can be potted to be used in harsh environment