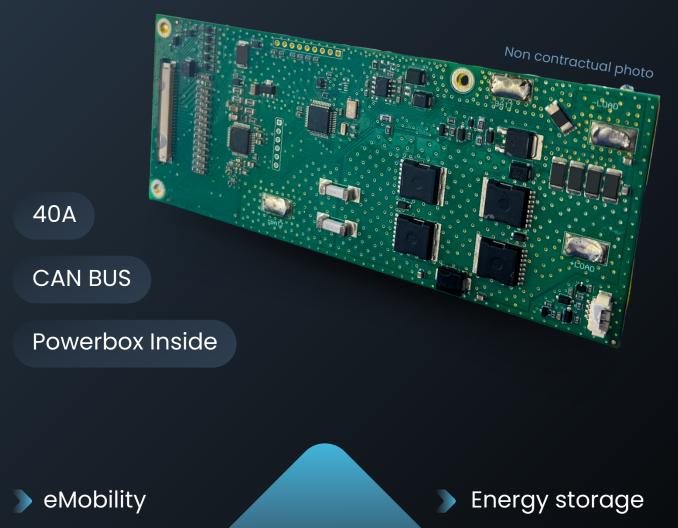


3-16S OPTIMA BMS PowerSafe





Technical Description



Cells management	0	Management from 3 to 16 lithium cells in series*, compatible with all cell technologies (NMC, LiFe, LiPo), (16S possible with rerouting).
	0	Management of 2 NTC temperature sensors
* Factory setting	0	Measurements accuracy: • Cell voltages: +/- 5 mV • Temperatures: +/- 1°C
Protections	0	 Overcurrent software protection several configurable levels in charge and discharge
	0	Overdischarge, overcharge, overtemperature protection
	0	 Short circuit hardware protection (electronic fuse) : Above 120 A for more than 150 µs
Balancing	0	Passive balancing with 50 mA of bypass current
Power Box	0	 Integrated power box with MOSFET technology : 30 A continuous current in discharge 40 A maximum peak current (20 sec) in discharge 30 A continuous current in charge
	0	Bidirectional current measurement
	0	Charge and discharge management
<	0	Precharge circuit included on the BMS
Smart functions	0	SOC and SOH calculation
	0	Possibility to connect 5 external LEDs to have a visual HMI
	0	Wake up using a switch
	0	Automatic BMS wake up on detection of the charger connection
	0	External communication via CAN bus 2.0B
	0	Auto diagnostic of the BMS
	0	Black box integrated with defaults history storage and life counters
	0	Optional hot swap paralleling technology (extra adaptation)
Power	0	Supply of the BMS directly on the battery pack
supply/consumption	0	Very low consumption in deep sleep mode: < 50 µA
Mechanical format	0	150 mm x 60 mm x 10 mm