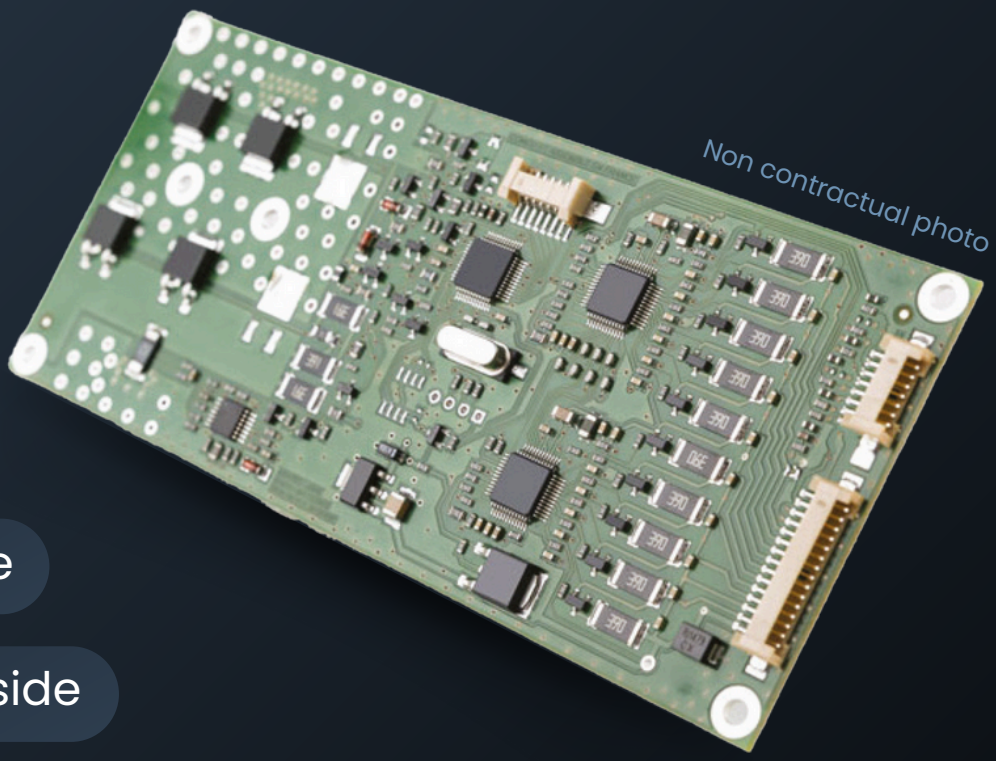
Product Sheet

6S BMS PowerSafe



Non contractual photo

- 55A
- CAN BUS
- Parallelizable
- Powerbox Inside

eMobility

Energy storage

Technical Description

6S

Cells management

- Management of 6 lithium cells in series*, compatible with all cell technologies (NMC, LiFe, LiPo...)
- Management of 2 NTC temperature sensors
- Measurements accuracy :
  - Cell voltages: +/- 5 mV
  - Temperatures: +/- 1°C

* Factory setting

Protections

- Over-current software protection :
  - several configurable levels during charge and discharge phases
- Overdischarge, overcharge, overtemperature protection
- Short circuit hardware protection (electronic fuse) :
  - Above 56 A for more than 100 µs

Balancing

- Passive balancing with 100 mA of bypass current

Power Box

- Integrated power box with MOSFET technology:
  - 45 A continuous current in discharge
  - 55 A maximum peak current in discharge
  - 20 A continuous current in charge
- Bidirectional current measurement
- Precharge circuit included on the BMS

Smart functions

- SOC and SOH estimation
- Management of a push button or switch to wake up the battery
- Automatic detection of the charger connection with wake up of the BMS
- Advanced self-diagnostic of the board
- Communication by CAN bus 2.0B
- Advanced supervision software
- Black box integrated with defaults history storage and life counters
- Possibility to connect up to 10 packs in parallel

Power supply/consumption

- Supply of the BMS directly on the battery pack
- Very low consumption in sleep mode: < 60 µA

Mechanical format

- 130 mm x 61 mm x 11 mm