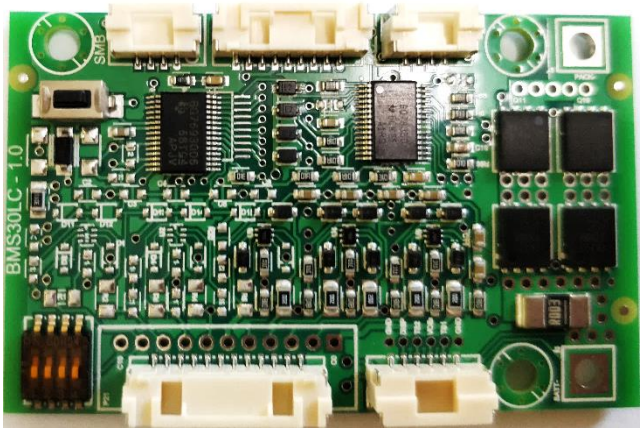
FICHE TECHNIQUE
BMS TYVA LC30



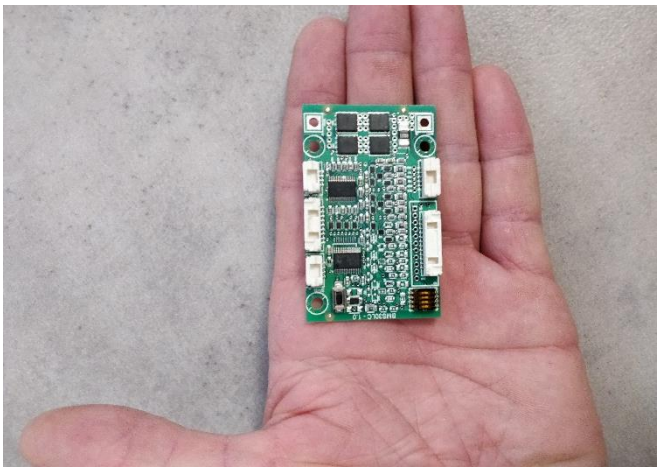
FEATURES

- Ultra-lightweight : 10 gr
- Manages from 3 to 10 battery lithium cells
- Cell voltage up to 5V
- Supports multiple battery chemistries
- Redundant analog and digital protections
- Below 70µA in sleep mode
- Embedded smart power supply
- State of Charge (SOC)
- Embedded passive cell balancing
- Maximum output current fully configurable
- High EMI immunity
- Made in France

- **Lightweight: 10 gr**
- **Very compact : 61 x 38 x 8 mm mm**

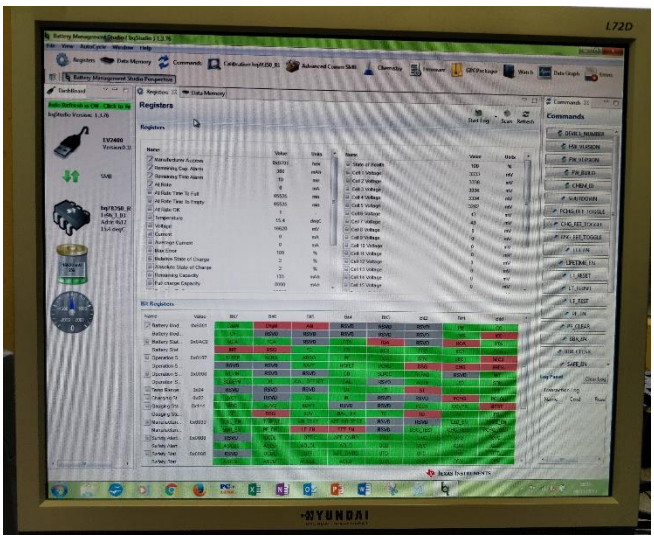
Applications

- Portable products
- E Bike and LEV vehicles
- Drones, robots
- Backup battery systems



Basic protection description

- Over Voltage
- Under Voltage
- Under Temperature
- Over Temperature
- Over Current
- Short Circuit



Advanced functions

- Fuel gauge for SOC (state of charge) with impedance tracking
- Cell Balancing
- On board and external temperature sensors
- Protections level setting with software tool
- SMBus communication Bus
- Datalogging memory with battery Lifetime and main events
- 5 x leds display output connector
- On/Off button
- 2 x Interlock input for battery detection
- 1 x storage smart switch

TYVA ENERGIE
Zone activité GROSBERTY, 188 Avenue Ferdinand Janvier, 07100 Annonay
info@tyva-energie.com https://tyva-moduloo.fr/

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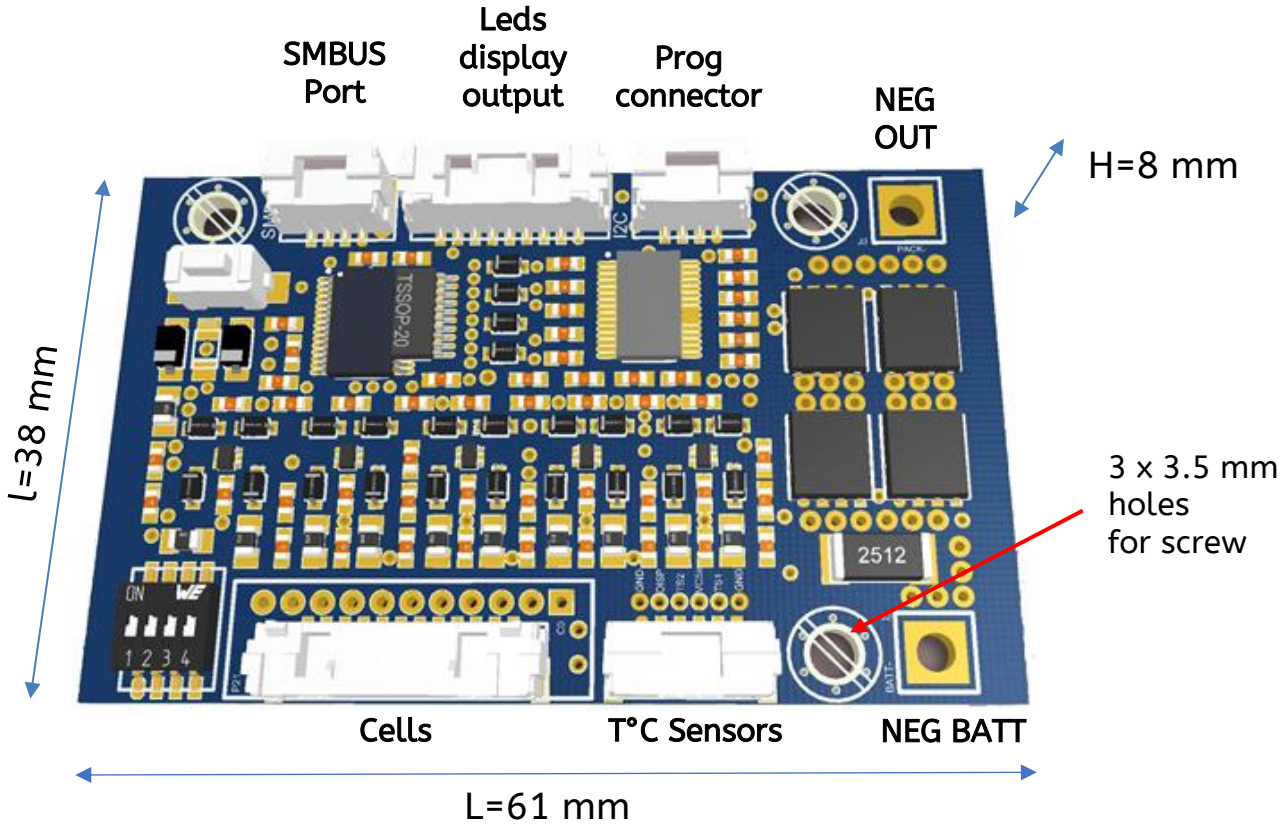
Overview

General specifications

ITEM	DETAILS
Board Battery Voltage	6 to 50 VDC
Cells per Board	3-5 cells (TYVA BMS-LC30-5S-A) 6-10 cells (TYVA BMS-LC30-10S-A)
Maximum output current	25 A continuous, 40 A (20 s), 100 A (1s)
Balancing current	50 mA
Temperature sensors	1 on the board + 1 to 2 external T°C sensors
Control IO's	1 On/Off Switch, 2 x Interlock, 1 prog port, 1 display 5 leds output, GPIO output
Communication	SMBUS
Temperature range	-40°C to 85°C
Dimensions	61 x 38 x 8 mm
Weight	10 gr



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