



Vinci-LV

BMS for large, low voltage batteries and battery arrays

Complete Battery Management System
for 24~48 V Li-ion or lead acid batteries.
Outstanding versatility, feature rich.
Expandable up to 63 batteries in parallel.

Standard specifications:

- 24 to 48 V bus
- Up to 16 Li-ion cells, any chemistry, or LA
- Wired (tap wires), centralized (1 case)
- Bullet-proof against tap mis-connection
- Rugged, sealed, industrial grade packaging
- Thermal management: ≤ 4 thermistors
- Isolated MOSFET gate drivers
- Contactor or latching relay driver, precharge
- Hall Effect or shunt current sensing
- + or - ground, or isolated, Gnd fault detect
- Energy (100 % SoC) or power (50 % SoC)
- SoC, SoH, extensive fault check, data logging
- CAN & USB communication links
- Solar inverters: Schneider, SMA...
- Field configurable through GUI
- Off the shelf, stocked

Array:

- Up to 63 batteries in parallel
- Safe connection to bus (no inrush)
- Managed as a single unit
- Li-ion and lead acid hybrid on the same bus



Applications:

- Solar
- Telecom
- Back-up
- Pole mount
- House power
- Aux Power Units

Elithion's Vinci: the most advanced family of off-the-shelf BMS solutions

The Vinci family of BMS solutions is the culmination of Elithion's years of experience in Battery Management Systems.

Each Vinci BMS solution is carefully tailored to a given application, fulfilling its every need.

We wrote the book on Li-ion BMS... literally.



Elithion Inc.

Leading manufacturer of Lithium-ion Battery Management Systems (BMS)

5303 Spine Rd #102, Boulder CO, 80301 USA / 1-720-466-7006

sales @ elithion.com / Elithion.com

Options

Battery:

- 6~12 x Li-ion cells
- 13~16 x Li-ion cells
- 2~4 x lead acid

Extra slaves:

- For additional strings permanently in parallel

Balancing:

- Dissipative (“passive”)
- Charge transfer (“active”)

Current sensing:

- Integral 20 A protector
- Integral 50 A sensor

External protector + sensor:

- Solid state: 50, 100 A
- Contactor: 200 ~ 2000 A

Communication links:

- XanBus™
- RS485 ModBus
- Ethernet ModBus
- RS232
- WiFi
- USB

Pre-made wiring:

- Lead acid taps
- Li-ion voltage taps
- Control harness

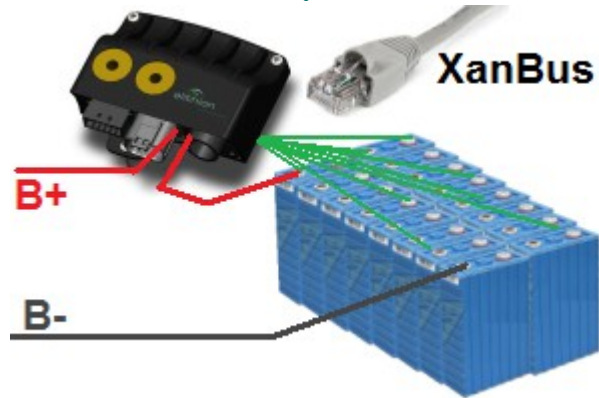
Adapters:

- USB
- RS485

XanBus is a trademark of Schneider Electric

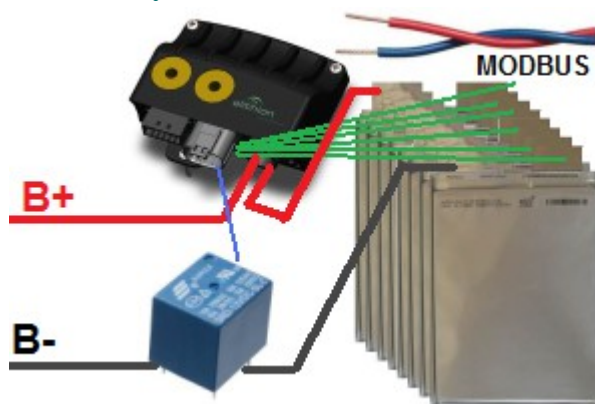
Example:

Single LiFePo4 Li-ion battery, 48 V, 20 A, XanBus™



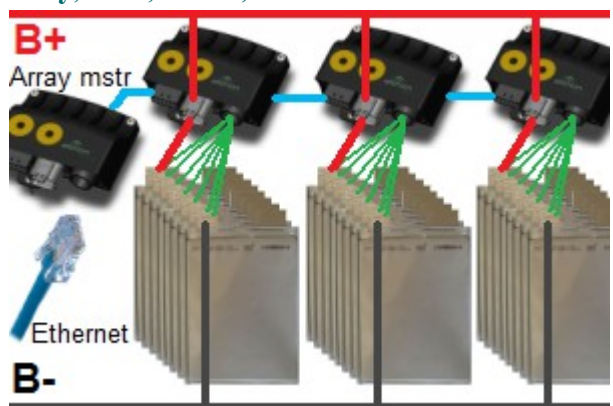
Example:

Single NMC Li-ion battery, 24 V, 50 A, MODBUS RTU



Example:

Three battery array, 48 V, 100 A, ModBus TCP/IP



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