

INDUSTRIAL





CUSTOM LITHIUM SYSTEMS / EK Series

Top efficiency and high customization level!!!

Solutions from 24V up to 800V / from 60 up to 600 Ah

Battery systems based on LiFePO4 cells. Specifically developed for custom application based on customer integration:

- Power supply and traction for lift / boom / crawler machinery
- Electric / Hybrid vehicles
- Emergency Storage for industrial automation
- Energy Storage for Renewable PV Energy systems











Main Features

- Maximum capacity in less space
- Useful lifecycle up to 5/10 times compared to traditional lead acid batteries
- > BMS electronics, microprocessor controlled boards embedded inside the battery case
- Scalability: Master / Slave board architecture allow systems up to 800V DC





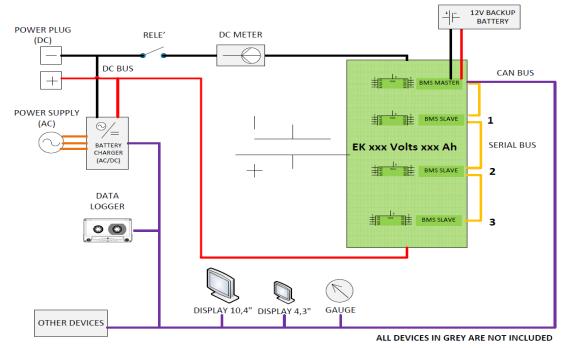
- Interface: CAN Bus 2.0a / 2.0b / CANOpen & RS232
- Battery Parameters / Status
 - SOC State of Charge (%)
 - SOH State of Health (%)
 - Imax Maximum Current (In / Out)
 - Vnom Nominal voltage
- Main HARDWARE integrated: SHUNT, Charge and Discharge Relays
- > IP54 / IP65 case available
- ➤ Charging Curve regulation as a REAL TIME FUNCTION this option is available only if battery is combined with dedicated Charger



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General Scheme



Quality

- Quality Control on each manufacturing step
- > Assembled in Italy
- > Latest Generation components and cells
- Aluminum Encapsulated Case Ultra-life LIFEPO4 cells 2000 cycles 80% D.O.D.

max safety Explosion Proof + Vibration Proof

Safety

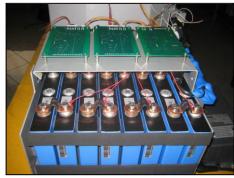
- Cells monitoring and protection:
 - Over Charging/ Discharging
 - Over Current IN / OUT
 - Short Circuit
 - Over Temperature

Charger

- Charging current optimized for LIFEPO4
- Available in IP30 / IP65
- Power from 1KW to 6 KW
- Current/Temp compensation curve designed for LiFePO4

Remote Diagnostic

- ➤ Netbook Aliant including proprietary software with RS232 port
- > Fine Tuning / Diagnostic via remote access
- ➤ SoC SoH check



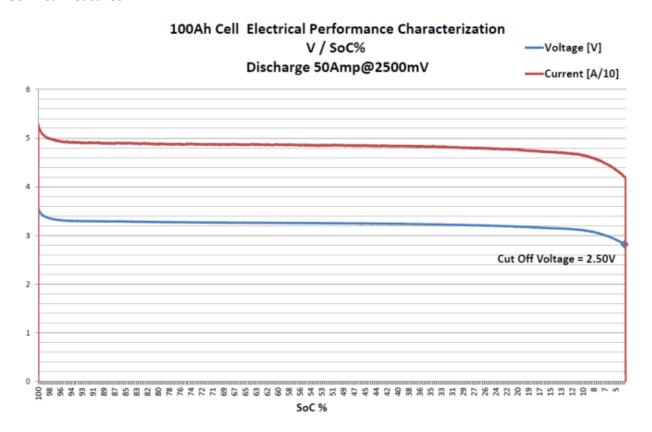




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Technical Features



Charge/Discharge 1C @100% D.O.D.

