

XB

Battery Management System

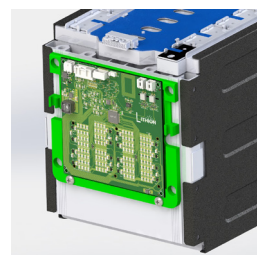
12-1000V

Lithion XB BMS Features

- Tailored specifically for Lithion Iron Phosphate Chemistry
- Controls up to 5 contactors at the system level and up to 3 on each string
- High accuracy shunt for current sensing ($\pm 20\text{mA}$)
- Pack level voltage monitoring
- Auto addresses all modular cell blocks
- High Voltage Interlock (HVIL) detection
- Up to 8 temperature sensors per 48V module
- Accurate cell voltage measurements ($\pm 2\text{mV}$)
- Passive cell balancing (250mA)
- Heating function control
- Data Logging Support on SD Card
- 12-48V nominal key input
- Contactor Coils run off key voltage
- Designed for integration into pack or power distribution unit
- State of Health
- Isolation Measurement interface for Bender Unit IR155-4203/4204
- Buzzer interface
- LED status light and external LED interface
- Real Time Clock
- Event Logging
- State of Charge, Min/Max Cell Voltage & Temperatures, Status & Error codes outputs
- Adjustable performance, warning, and fault limits
- Controls CANOpen Chargers
- Low voltage protection (over-discharge)
- High voltage protection (overcharge)
- Redundant Protective Safety Circuits (dual microcontrollers)
- System and Stack Controller boards are stackable for compact spaces

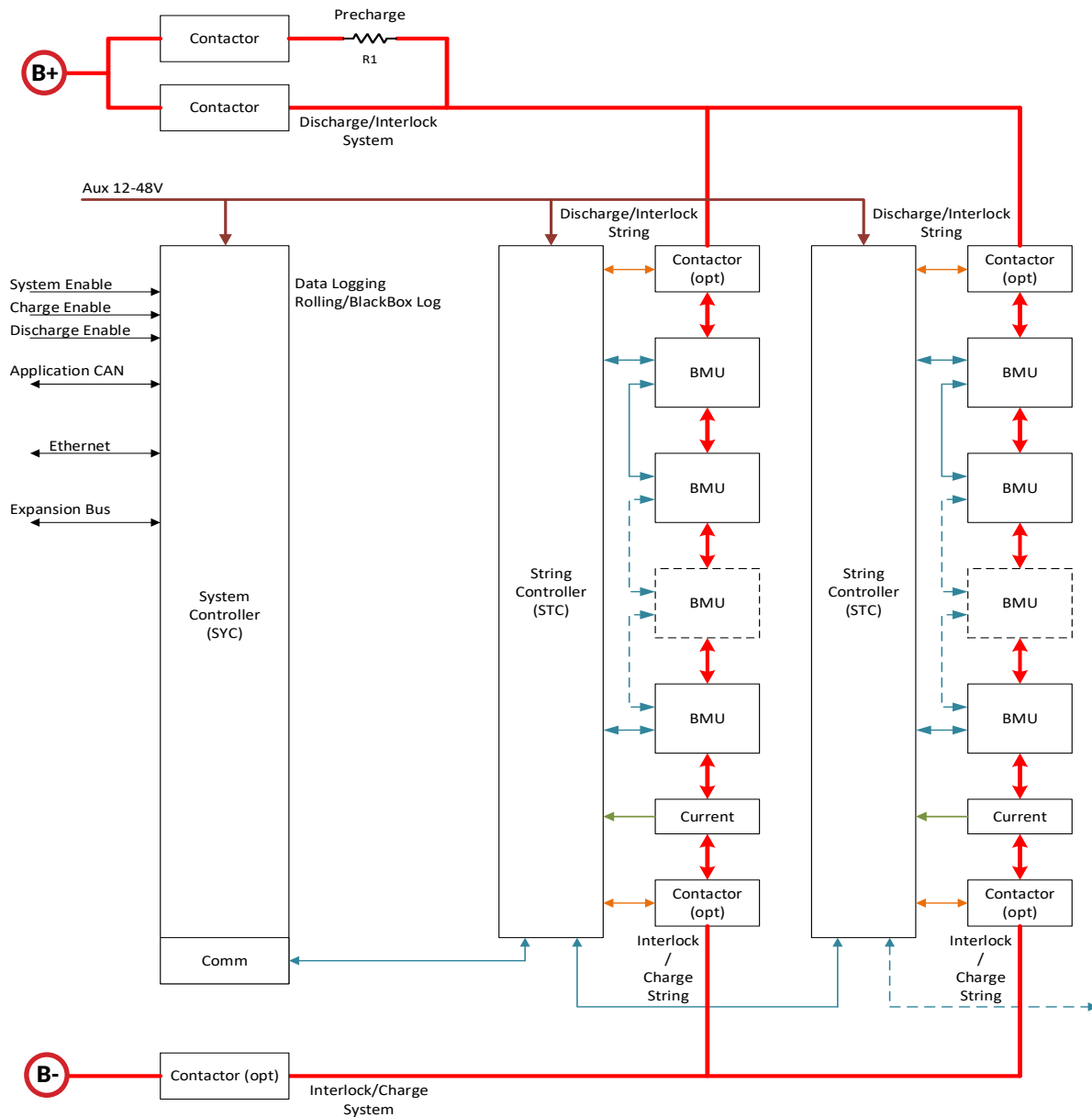
XB BMS Contents:

- 1 System Controller (SYC)
- 1-4 String Controllers (STC), 300A continuous built in shunt
- Up to 64 Battery Monitoring Units (BMU), one per (12-48V) module



Communication			
Ethernet	CANBus	RS485	USB
MQTT	CANOpen	Modbus Serial	
FTP	CAN 2.0B		
Modbus TCP			

XB-BMS Architecture Layout



Accessories

CANbus Kit
XB Diagnostic Kit
Wiring Starter Kit
Enclosure for stacked SYC/STC

Dimensions (L x W x H)

BMU with Tray	131 x 166 x 17 mm
STC with Tray	165 x 123 x 31 mm
SYC with Tray	175 x 155 x 25 mm
Stacked STC/SYC with Tray	194 x 155 x 47 mm

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