

### Alber delivers the solutions you need...

A real time battery monitor designed for large cell count applications

- Automate the IEEE Recommended Practices for battery maintenance and testing
- Maintain complete and accurate maintenance records
- 7x24 data collection, analysis, and remote alarm notification
- Real time display and data logging of individual cell voltages and string current during a discharge event

### Real Time Data Capture

- Overall String Voltage
- Individual Cell Voltages
- Ambient Temperature
- Discharge Current
- Float Current
- Discharge Event

### Proactive Continuity and Integrity Testing

- User programmable DC resistance tests
- Internal cell resistance test (Battery State of Health)
- Intercell and Intertier connection resistance test

### Battery Management

- Vital battery parameters are continuously compared to user programmable alarm thresholds
- Detailed analysis and report generation with the BMDM - Battery Monitor Data Manager software
- No onsite computer is required for data collection and alarming – multiple remote communication options
- Easily integrates to building management systems

*Alber is about integrity, reliability and product innovation. It is our experience and proven technology that makes the difference between unexpected failure and continued success!*





## Battery Diagnostic System XL (BDS-256XL) – System Specifications

• Intertier resistance:	0 to 5mΩ, 5% of reading ±5μΩ
1V range	0-2V 0.1%±1mV
2V range	0-4V 0.1%±1mV
4V range	0-8V 0.1%±2mV
• Cell voltage:	6V range 0-8.5V 0.1%±2mV
8V range	0-10V 0.1%±10mV
12V range	0-16V 0.1%±10mV
16V range	0-20V 0.1%±10mV
• Cell resistance:	0 to 32,000μΩ, 5% of reading ±1μΩ
• Intercell resistance:	0 to 500μΩ, 0.25% of reading ±5μΩ Optional harness required
• String Voltage:	0 to 80.00 volts, 0.2% of reading ±0.02 volts 0 to 400.0 volts, 0.2% of reading ±0.1 volts 0 to 600.0 volts, 0.2% of reading ±0.2 volts
• *Discharge Current:	±4000A ±1% of full scale
• *Float Current:	0 to 5000mA ±50mA
• *Temperature:	0°C to 80°C (32°F to 176°F), ±1°C
• *	Optional Current Transducer CT required Transducer accuracy affects overall current/ temperature reading accuracy.

### Agency Approvals

- UL listed. File number E212234
- CE approved

### Operating Environment

- Temperature range: 5°C to 40°C (41°F to 104°F)
- Humidity range: 0% to 80% RH (non condensing) at 5°C to 31°C

### Alarms

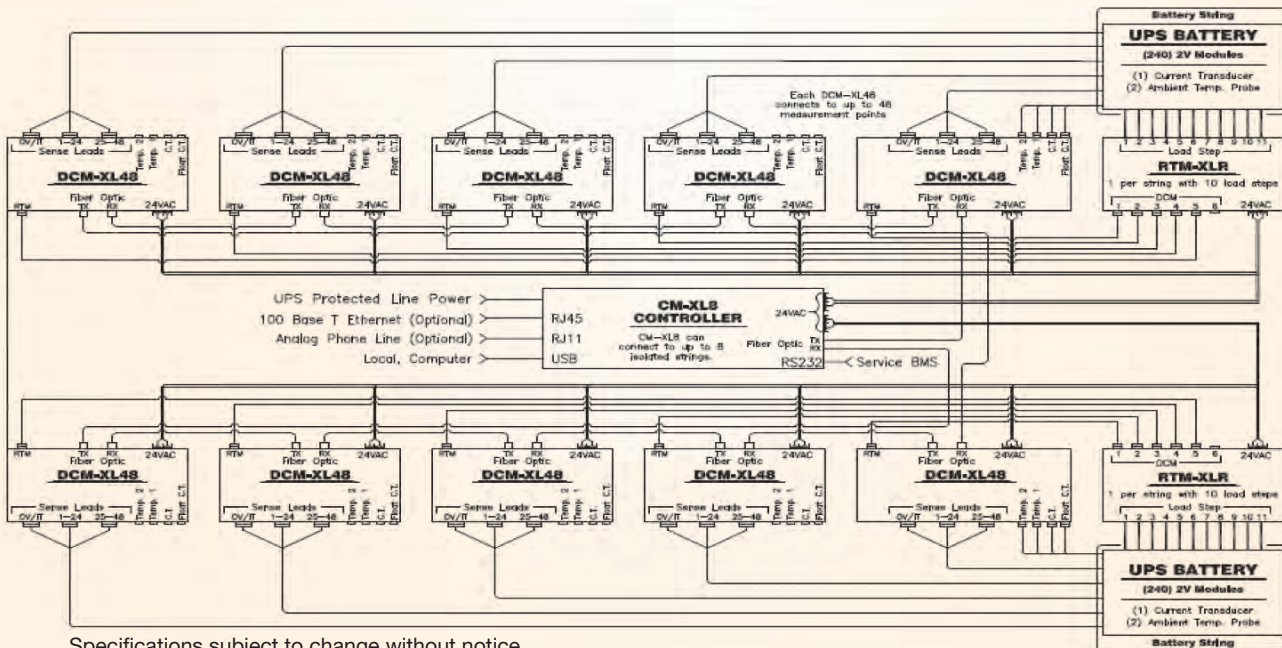
- 2 Form C, 1 critical alarm/ 1 maintenance alarm.
- User programmable relay contacts (Optional). 8 Form C, 2A at 30VDC

### Communications

- Network, Modem, USB
- Modbus (ASCII), TCP/IP, SNMP

### A BDS-256 XL system consists of:

- One CM-XL8 Controller Module per 8 strings - 19"W x 8"D x 5"H, 16 lbs.
- One or more Data Collection Modules per string - 19"W x 10"D x 1.75"H, 6 lbs.
- One RTM Resistance Test Module per string - 19"W x 12"D x 5"H, 16 lbs.



Specifications subject to change without notice