Alber
Trust Your Batteries™

BDSU-50
Universal Battery Diagnostic System

Alber delivers the solutions you need…

The Alber BDSU-50 delivers new technology and added features with the quality you've come to rely on!

- Real time battery monitoring for 12V/16V up to 50 modules in series
- Save time and money by automating the IEEE Recommended Practices for Battery Maintenance and Testing
- Increase reliability with 24x7 data collection, analysis and remote alarm notification

Real Time Data Capture

- Overall String Voltage
- Individual Cell Temperatures (option)
- Discharge and Float Currents
- Thermal Runaway Management
- Individual Cell Voltages
- Ambient Temperature
- AC Ripple Current

System Advantages and Features

- New patented DC test verifies the integrity of the entire battery system:
  - Internal Cell Resistance Test (Battery State of Health)
  - Intertier Connection Resistance Test
  - Mid-String Disconnect Switch Resistance
- No onsite computer is required for data collection and alarming - multiple remote communication options
- Easily integrates to building management systems
- Manage your battery assets across multiple sites with the Battery Xplorer Enterprise software
- Self-Calibrating

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

Universal Battery Diagnostic System (BDSU-50)
System Specifications

Agency Approvals
- UL61010-1
- CE Approved

Operating Environment
- Temperature range: 5ºC to 40ºC (41ºF to 104ºF)
- Humidity range: 0% to 80% RH (non-condensing) at 5ºC to 31ºC

Alarms
- 2 Form C (Assignable as Critical or Maintenance alarm.)
- Thermal Runaway charger contact

Communication
- Ethernet
- RS-485
- SNMP
- TCP/IP MODBUS
- USB
- Web Server

System Modules

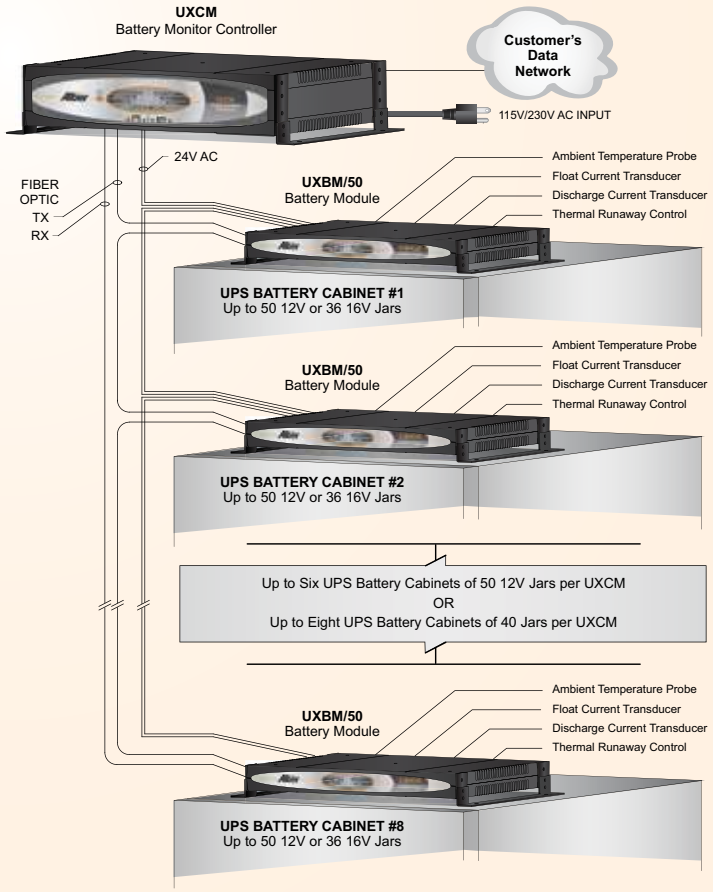
UXCM - Universal Control Module
(17.00”W x 3.49”H x 12.00”D)

UXBM/50 - Universal Battery Module
(17.00”W x 1.74”H x 12.00”D)

System Measurements

Parameter	Tolerance
String Voltage	0 to 400.0 volts: 0.2% of reading ±0.2 volts 0 to 700.0 volts: 0.2% of reading ±0.4 volts
Discharge Current	0 to 250ADC, ±1% of full scale 0 to 400ADC, ±1% of full scale 0 to 600ADC, ±1% of full scale
Ripple Current	0 to 200A RMS, ±5% of full scale
Float Current	0 to 5000mADC, ±1% of full scale
Ambient Temperature	0°C to 80°C ±1°C (32°F to 176°F)
Cell Voltage	12V range 0 to 18V 0.1% ±12mV 16V range 0 to 24V 0.1% ±16mV
Internal Cell Resistance	0 to 32,000µΩ, 5% of reading ±2µΩ
Intertier Resistance	0 to 5000 µΩ, 5% of reading ±5µΩ
Cell/Monobloc Temperature (option)	0°C to 80°C ±1°C (32°F to 176°F)
UXCM Power	115/230VAC 50/60Hz
UXBM Power	Distributed 24VAC from the UXCM

Specifications subject to change without notice.



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