# Albér<sup>®</sup> UXTM - Telecom Monitor

## **Universal Xplorer Battery Monitor**

# A real time battery monitor designed for use in telecommunications or in DC powered data centers.

- Automate the IEEE Recommended Practices for Battery Maintenance and Testing
- Monitor up to four strings in parallel
- Robust design will monitor any 24V to 48V battery configuration
- Stay connected with Web enabled technology
- Multiple remote communications and alarm options

#### **Monitor Critical Parameters Real Time**

- Overall string voltage
- Individual cell/block voltages
- Individual cell/block temperatures
- Ambient temperature
- Discharge, float and ripple current
- Records and stores discharge events

#### **Proactive Battery State of Health Testing**

- Tests the entire battery system's integrity
- Internal cell/block resistance test
- Intercell and Intertier connection resistance test

#### **Stand Alone System**

- Easily integrates to building management systems
- Embedded Web server with priority email scheduler
- 24x7 data collection, analysis, and remote alarm notification













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### System specifications

#### **Agency Approvals**

- UL60950-1, IEC60950-1, EN60950-1
- EN 300386, 2001 Class B
- FCC Part 15, Class B

#### **Operating Environment**

- Temperature range: 0°C to 50°C (32°F to 122°F)
- Humidity range: 5% to 95% RH (noncondensing) at 0°C to 32°C

#### **Digital Inputs**

3 inputs configurable for dry or wet detection

#### Alarms

Form C relay contact, 2A at 30VDC

#### **Input Power**

DC Powered - 18 to 58VDC, 7.5W max.

#### Communications

- RS485 YDN-23 or MODBUS
- Ethernet TCP/IP MODBUS or SNMP
- USB

#### Packaging

ALARM

- 15.75"W x 1.75"H x 7.00"D
- Wall or 19" Rack Mount

#### System Measurements

Parameter	Tolerance	Number of Inputs	
String Voltage	0 to 56 volts	Calculated	
Discharge Current	$\pm 4000 \text{ADC} \pm 1\%$ of full scale with $100\mu\Omega$ or greater intercell	Calculated	
Ripple Current	0 to 250A RMS, ±5% of full scale	Calculated	
Float Current	0 to 5000mADC, ±1% of full scale, ±50mA	Calculated	
Ambient Temperature	0°C to 80°C ±0.1°C (32°F to 176°F)	1	

#### **Cell/Block Level Measurements**

Parameter	Tolerance		
Cell Voltage	1V range	0 to 4V	0.1% ±1mV
	2V range	0 to 4V	0.1% ±2mV
	4V range	0 to 6V	0.1% ±4mV
	6V range	0 to 9V	0.1% ±6mV
	8V range	0 to 12V	0.1% ±8mV
	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 $\pm 2\mu\Omega$		
Intercell Resistance	0 to 5,000μΩ, 5% of reading $\pm 5\mu\Omega$		
Intertier Resistance	0 to 5,000µ $\Omega$ , 5% of reading ±5µ $\Omega$		
Cell/Block Temperature	0°C to 80°C ±0.1°C (32°F to 176°F)		

Specifications subject to change without notice.

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### **Back Panel Connection Details**