ALBÉR® BDS-256XL

Full-Scale Battery Testing And Diagnostics For UPS Systems

BENEFITS

The Albér® BDS-256XL Battery Monitoring System Is Designed For Today's Large UPS Systems

- Each Albér BDS-256XL Battery Monitoring System continuously diagnoses all critical battery parameters such as cell voltage, overall string voltage, current and temperature. Automatic periodic tests of the batteries internal resistance will verify the operating integrity of the battery. If resistance values exceed set thresholds, the user can take the proactive action of replacing the bad battery before it affects the others in the string, or before it causes complete string failure
- By tracking internal resistance, the system can predict and report failing conditions prior to complete failure. A time-to-go estimate algorithm, which uses discharge parameters and internal resistance readings, assists in predicting remaining battery life
- Interface to the Albér BDS-256XL is done with the Battery Monitor Data Manager software package. The Battery Monitor Report Generator software creates reports from collected data

Albér BDS-256XL system features include:

- Monitor up to 256 cells/modules per string. 2 volt cells, NiCd cells, 4 volt, 6 volt, 8 volt, 12 volt and 16 volt modules supported.
- Modular design easily expands to monitor an unlimited number of strings.
- Overall voltage, cell/module voltages, current, and temperature are continuously scanned every four seconds and compared with user-programmed alarm levels.
- At user-selected intervals, automatic pro-active internal DC resistance tests are performed and compared to user-programmed alarm levels. All data is saved for automatic retrieval.
- At user-selected intervals, overall voltage, cell/module voltages, current, and temperature readings are saved for automatic retrieval.
- Discharges are automatically detected and data saved for retrieval. Discharges can be viewed in real time locally or remotely during the event or later replayed in real or accelerated time.

Advanced technology by Vertiv™
Vertiv offers the latest in UPS battery monitoring technology with Alber BDS products. Vertiv technologies are designed to prevent battery failure, optimize useful battery life, reduce maintenance cost and increase safety

- Alarm events trigger an indicator, dedicated contact closure, programmable contact closure and automatic dial-out notification. Can be user-set to page, fax, print, and/or sound audible alarm.
- Industry standard MODBUS protocol interfaces to third party building management systems via RS-232/USB and Ethernet.
- Communicates with an external computer via R-S232/USB or remotely through internal modem.
- Optional TCP/IP interface for network or Internet communication via MODBUS or SNMP.
- Windows-based software for real-time viewing, automatic data collection, data analysis, and report generating.
- Digital input/output option permits monitoring up to 16 inputs and up to 8 user-programmed outputs.
- Monitor Load Control option enables the monitor system to control an Albér Continuous Load Unit (CLU) for performing battery capacity testing.

Albér BDS-256XL System Specifications

PARAMETERS/FEATURES	
Number of cell channels: Up to eight strings of 256 cells per string. Up to 6 DCM-480 units per string.	
INPUT RANGE/ACCURACY	
Cell voltage:	0 to 16V, 0.1% of reading ±1mV
String voltage:	0 to 80.00V, 0.1% of reading ±0.02V 0 to 400.0V, 0.1% of reading ±0.1V 0 to 600.0V, 0.1% of reading ±0.5V
Discharge Current:	0 to 4000A, 0.1% of reading ±1A Note: An optional current transducer is required. Transducer accuracy affects overall current reading accuracy
Float Current:	0 to 5000mA ±5mA Note: An optional current transducer is required.
OPERATING ENVIRONMENT	
Temperature range:	5°C to 40°C (41°F to 104°F)
Indoor use only.	

Albér BDS-256XL Controller Specifications

POWER
Less than 5 amps at 115 VAC ±10% 60Hz (for a configuration of 8 strings of 240 cells).
INPUTS
Remote alarm reset: User-supplied 12V to 32V signal. (Current draw less than 50ma.) Momentarily applying voltage initiates the reset action.
Digital input (certain models): Sixteen l2V to 32V at less than 50mA.
OUTPUTS
24 VAC power: Four for DCMs and External Load Modules.
Alarm contacts: Two Form C: 2A at 30VDC. (One for critical alarm; one for maintenance alarm.)
Digital output (certain models): Eight Form C: 2A at 30VDC. (Optional)
COMMUNICATION
Modbus protocol, ASCII to PC, and Ethernet
Local port, USB connector (front panel).
Local port, RS-232 D8-9 connector (rear panel).
LAN port, RJ-45 (optional) (rear panel).
RJ-11 Telco line, internal 14.4Kbs modem (optional) (rear panel).
Fiber optic ports: 2 TX/RX
DATA STORAGE
SRAM (8 MB) nonvolatile memory for all configuration settings and data. Hold's up to one year's worth of data.
Flash memory for firmware upgrades.
PACKAGING
19" rack-mount. 19"W x 8.15"D x 5.25"H
Optional brackets available for mounting in 23" rack.
Optional Liebert Foundation Wallmount Cabinet

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