Cellserve

Battery Monitoring System

PRODUCT DESCRIPTION

The Cellserve battery monitoring system is one of the industry leading battery health analysis solution, utilising advanced patented technology for comprehensive examination of battery installations.
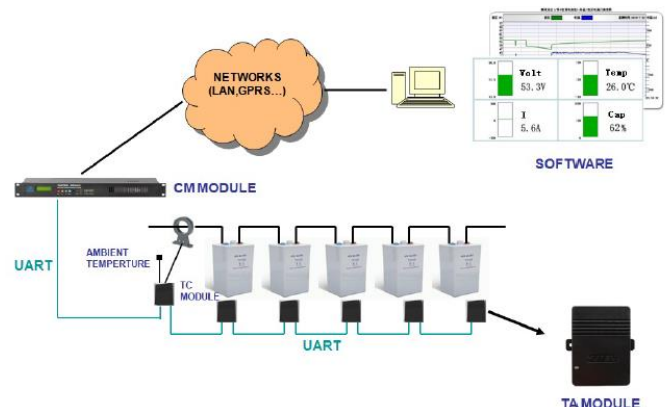
The modularity system design allows for ease of installation in most applications.

KEY FEATURES

- **24/7 continuous online monitoring**
  Ensure constant checks on measured data points
- **Measured data includes cell voltage, cell resistance, cell temperature, overall voltage, charge/discharge current and ambient temperature**
  Provides comprehensive data set on battery health status
- **Graphical User Interface**
  Allows real-time querying and retrieval of historical data
- **Modbus Communication Protocol**
  Interfaces with most UPS controllers
- **Ease of Installation**
  Reduces work time
- **Optional 5.7" LCD display monitor**

APPLICATIONS

- UPS system
- Telecommunications
- Power Utilities
- Fire and Safety System
- Backup batteries applications

TECHNICAL SPECIFICATIONS

MODEL	Cellserve BMS	
Modules	**Input Requirements**	
CM Module (Control Module)	85Vac to 264Vac (100Vdc to 370Vdc), 15W	
TA Module (VRT sensor)	Powered by individual battery block (<13mA @ 2V, <7mA @ 6V/12V, quiescent)	
TC Module (Current & Temp sensor)	8Vdc to 13Vdc, 2W	
Converter Module	8Vdc to 13Vdc, 0.5W	
Measurement Range and Accuracy		
String Voltage	20Vdc to 800Vdc, ±(0.5%+2V)	
Cell Voltage (2V)	1.5Vdc to 2.5Vdc, ±(0.1%+1mV)	
Cell Voltage (6V)	3.5Vdc to 7.5Vdc ±(0.1%+10mV)	
Cell Voltage (12V)	9Vdc to 15Vdc, ±(0.1%+10mV)	
Internal Cell Resistance	50µΩ to 65535µΩ, (±2%)	
Battery Temeprature	$-5^{o}C$ to $99.9^{o}C$ (±$1^{o}C$)	
String Current	0A to 1000A, ±1% (full scale)	
Battery Type		
Battery Cells/Blocks	2V, 6V or 12V	
Protection		
CM Module (Control Module)	Overcurrent Protection, 0.4A fuse	
TA Module (VRT sensor)	Fuse Protection / Reverse polarity protection and optical isolation	
TC Module (Current & Temp sensor)	Fuse protection	
Environmental Conditions		
Humidity	5-90% RH (non-condensing)	
Operating Temperature	$-5^{o}C$ to $50^{o}C$	
Storage Temperature	$-10^{o}C$ to $70^{o}C$	
Communication Interface		
CM Module (Control Module)	RS485, Ethernet Port, meets Modbus/RTU, Modbus/TCP and SNMP	
TA Module (VRT sensor)	Serial Port meets Modbus, supports 130 devices on each bus	
TC Module (Current & Temp sensor)	Serial Port meets Modbus	
Insulation	2000Vac	
Physical Dimensions	**Dimensions (WxDxH)**	**Weight**
CM Module (Control Module)	483 x 116 x 44.5 mm	1.8kg
TA Module (VRT sensor)	80 x 27.8 x 83.1 mm (includes mounting)	80g
TC Module (Current & Temp sensor)	80 x 29 x 83.1 mm (includes mounting)	75g
Design Standards		
Regulatory Standards	CE / UL61010-1 / RoHS	