BP-BHMS

Applications:

- **Data Center**
- **Telecommunications**
- **Railway Transport**
- **Utility (Substations)**

IBMS Controller

Uninterrupted power is essential part of any automation system and mission Critical system such as Defence, Raiways, Medical, Data Centre etc. Every mission critical application uses back up system to provide uninterrupted power during power outages. Hence, Battery plays important role in any solution, any sudden failure in battery operation leads to failure of complete system and could cause any disaster. This is always important and necessary to monitor and manage the battery to get the early information of batterty health to prevent suddent failure.

BPE designed Intelligent Battery Health Monitoring System (BHMS) is an advance battery healthy minitoring system, which monitors the battery parameters like string current, battery cell voltage, battery impedence & cell temp. In case of any abnormility BHMS generates alarm and user gets sufficient time to take the preventive measures. Enhanced feature BHMS performs battery balancing featurein case any of the battery block cell is over charged or it's terminal voltage not in balancing range.

Features:

- Wide operating voltage range.
- String Monitoring - Upto 4 nos.
- Upto 120 cell monitoring per string
- High level of measurement accuracy
- Cell level monitoring – Voltage, Temperature, Impedance
- String level Monitoring – Current, voltage
- Alarms logging and report generation
- Suitable for 2VDC or 12VDC VRLA batteries.
- On controller display for service settings.
- 4 DI's & PFC terminal for local alarms monitoring.
- Easy mounting on battery bank or on din rail(optional)
- Cell level Visual indication for failure status identification.

String Sensor

Cell Sensor

INPUT

Specification	Controller	String Sensor
Voltage Range	18 ~ 36V DC	12 ~ 36V DC
Voltage Nominal	24V DC	24V DC
Power	Ê˙+ ˙] Oh˜	24V DC

Controller

Specification	IBMS-1204	IBMS-1202
CPU	ARM Cortex A8 800MHz	
Display	LCD with high resolution	
RAM	512 MB	
Ports	4 RS485 strings, 2 Ethernet	2 RS485 strings, 2 Ethernet, 4DI, 2AI, 1 DO
Communication	TCP/IP, Web based GUI, SNMP (optional)	
Dimensions (WxDxH)	90mm x 68mm x 94mm	

String Sensor

Specification	
Measuring Voltage Range	20VDC to 800V DC (+/- 0.5%)
Measuring String Current	-1000A ~ 1000A (By Hall Sensor)
Ports	1 RS-485, 2 RJ 11, 1 Hall Sensor
Power Consumption	1 W Max.

Cell Sensor

Specification	12V DC Cell Sensor	2V DC Cell Sensor
Voltage	12V DC	2V DC
Measuring Voltage Range	7.56V to 15.6 (+/-0.2%)	1.6V to 2.6V (+/-0.2%)
Measuring Internal Temp	-20 to 85 deg C (+/- 1 deg C)	
Measuring Impedence Range	0.1 mOhm to 100mOhm	
Power Consumption	Running : 120mW Sleeping : 10mW	Running : 170mW Sleeping : 12mW
Communication	CAN communication with string sensor	

General

Specification	
Operating Temp Range	-10 to 55 deg C
Humidity	10% to 95% (non condensing)
Safety Standards	CE

*Specifications are subject to change without prior notice.
** For additional information contact : crm@bpe.co.in

BPE
Strategic Power Solutions