



Online monitoring & balancing



Cost competitive solution



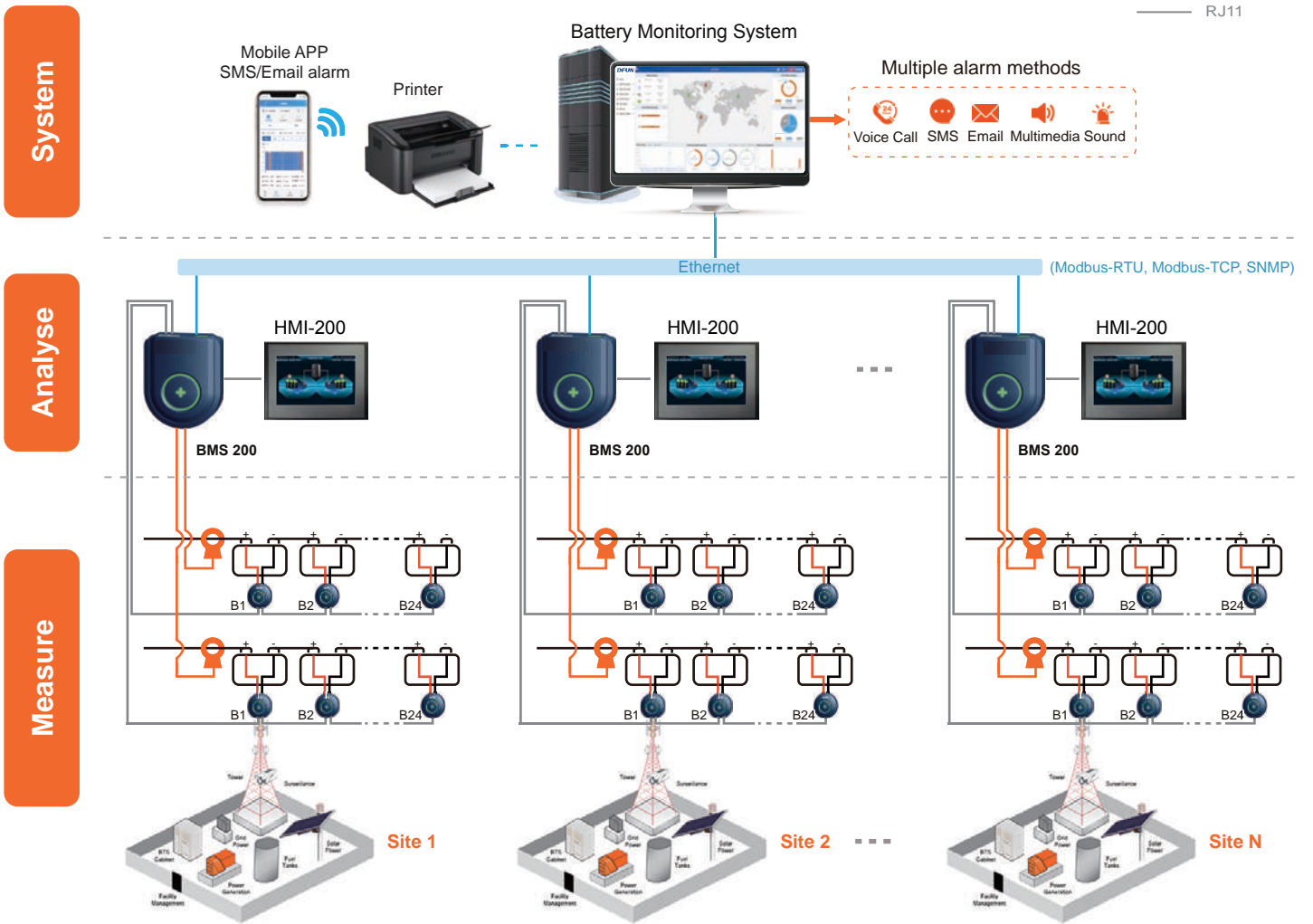
Real-time alarm

Feature

- Dedicated design for telecommunication 24V or -48V system
- 24/7 hours on-line monitoring & remote alarm
- Cost competitive solution, support Max. 1 string, total 120pcs batteries, or Max. 2 strings, Max. 60pcs batteries each string
- Multi communication protocol (Modbus-RTU, MODBUS-TCP, SNMP)
- Comply with IEEE 1188-2005

BMS 200 Battery Monitoring Module

System Structure



Management Layer

BMS 200 Battery Monitoring Master

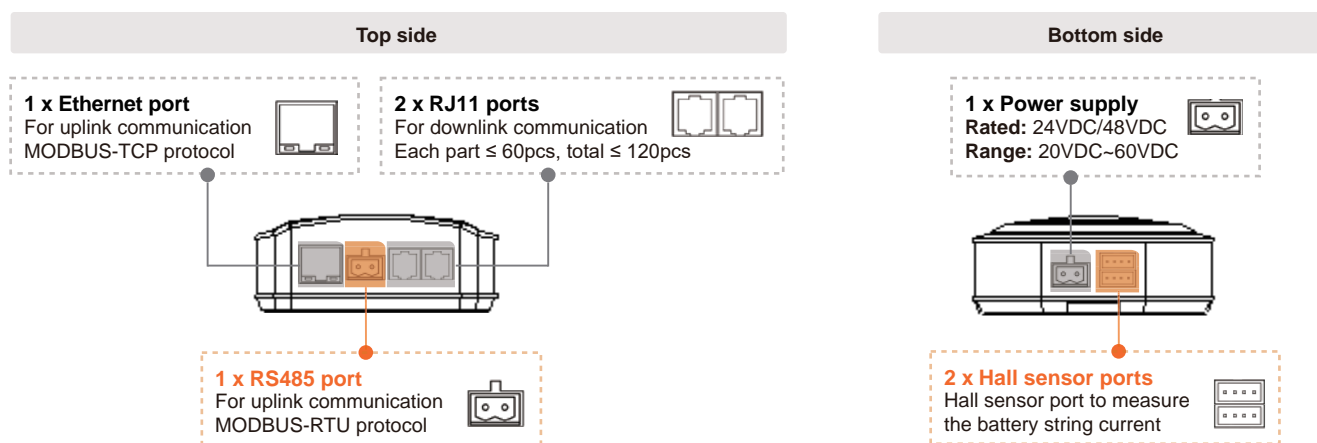
- Monitor battery string voltage, charge and discharge current
- Calculate battery string SOC
- Auto-balancing
- Auto-sensing for the battery sensor's ID address
- Setpoint alarm (upper limit / lower limit)
- Data collecting
- Data uploading function via build-in RS485 (Modbus-RTU) & Ethernet (Modbus-TCP or SNMP)
- Support 3rd party system (DCIM)
- Local display via HMI





BMS 200 Battery Monitoring Module

Application		DC power system (telecom site)
Rated input voltage		24VDC or 48VDC range: 20 ~ 60VDC
Measuring	voltage	0 ~ 800V (accuracy: $\pm 0.5\%$)
	current	-1000 ~ 1000A (by hall sensor, accuracy: $\pm 2.0\%$)
Power consumption		< 2W
Up-link communication		1 Ethernet port (10/100M), Modbus-TCP / SNMP protocol 1 RS485 port , Modbus-RTU protocol, baudrate: 9600bps, 19200bps, 38400bps (optional)
Down-link communication		2 RJ11 ports, each port connect Max. 60pcs batteries, total max. 120pcs batteries

Terminal Introduction



Order Information

System structure		Model	Description	Remark
Management layer		BMS 200	Battery monitoring master	One PBMS2000 can monitor Max. 1 string, total 120pcs batteries or Max. 2 strings, each string Max. 60pcs batteries. Max. 2 hall sensor & 2m cable, range from 0 ~ ± 1000 A, 5m communication cable with RJ11 port
Battery cell sensor		BAT 6 1 -0 2	2 volt battery cell sensor	One per battery cell
		BAT 6 1 -1 2	12 volt battery cell sensor	One per battery cell
Accessory	Cell sensor communication cable	BAT-COM-4 0	Cable terminal: RJ11 port, length: 40cm (standard)	
		BAT-COM-7 0	Cable terminal: RJ11 port, length: 70cm	
	Battery measuring cable	BAT-C1 -U-M8 -3 0	Cable terminal: U type  , hole diameter: 8mm, length: 30cm (standrad)	
		BAT-C1 -O-M8 -3 0	Cable terminal: O type  , hole diameter: 8mm, length: 30cm	
	Hall sensor for BMS 200	CS050EK1T5	Rated input: 50A	Measure range: 0- ± 100 A, $\Phi 20$ mm
		CS100EK2T5	Rated input: 100A	Measure range: 0- ± 200 A, $\Phi 40$ mm
		CS200EK2T5	Rated input: 200A	Measure range: 0- ± 400 A, $\Phi 40$ mm
CS400EK2T5		Rated input: 400A	Measure range: 0- ± 800 A, $\Phi 40$ mm	
	CS500EK2T5	Rated input: 500A	Measure range: 0- ± 1000 A, $\Phi 40$ mm	
Optional module	Local display & operation	HMI 200	7-inch touch screen HMI for local display	One per PBMS2000 Communication with PBMS2000 via RS485