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BCNBMS2000 for Telecom Site

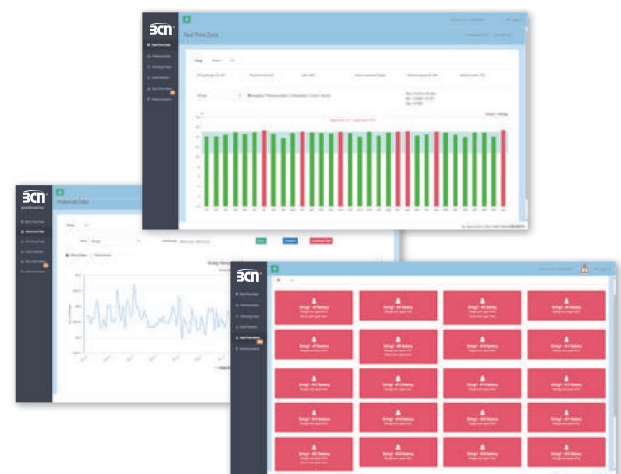
 Online monitoring & balancing

 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
- Measure Lead-Acid battery
- Multi communication protocol (Modbus-RTU, MODBUS-TCP, SNMP)
- Comply with IEEE 1188-2005



Your choice of power protection



BCN UPS



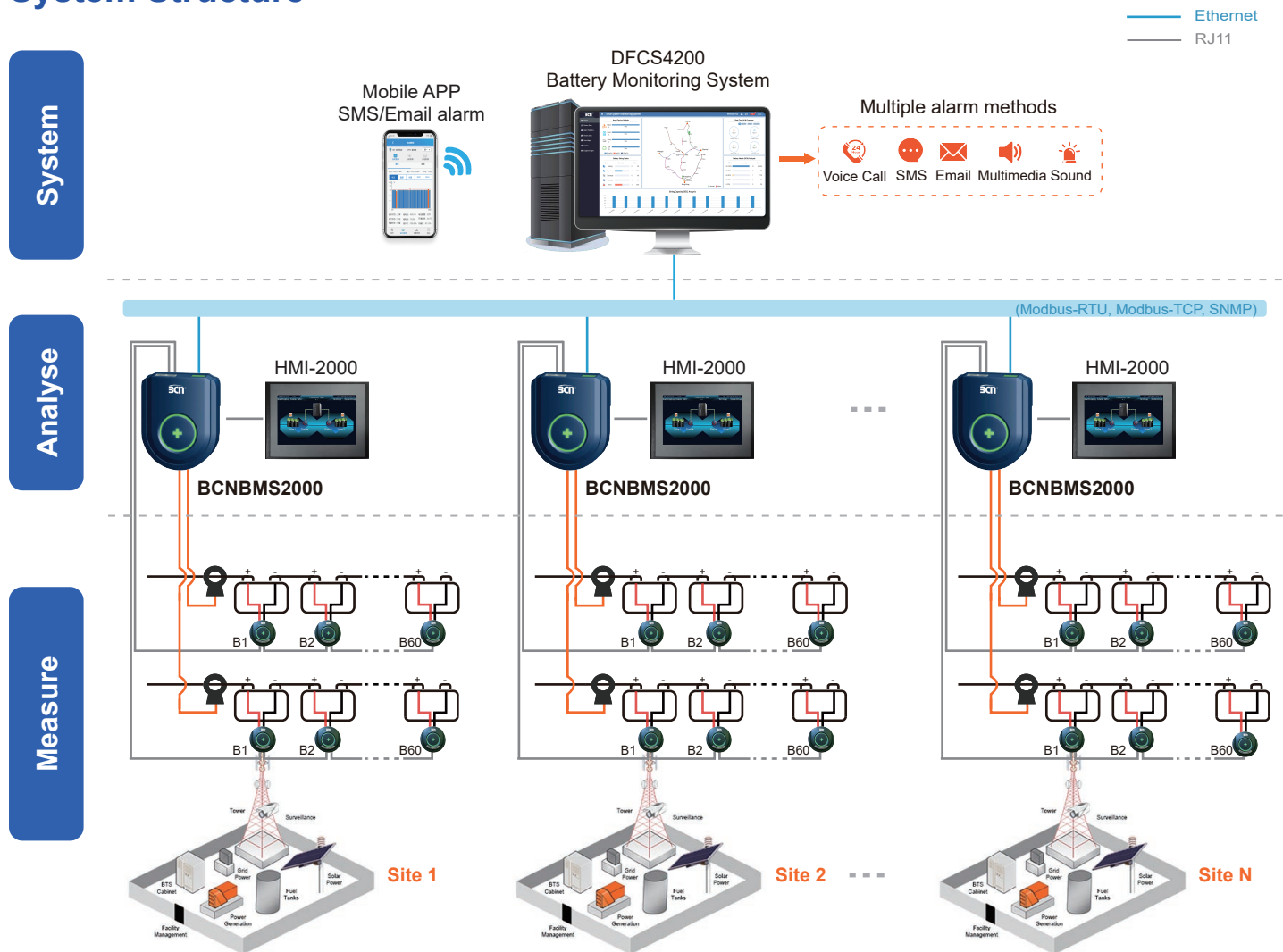
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BCN UPS

BCNBMS2000 for Telecom Site

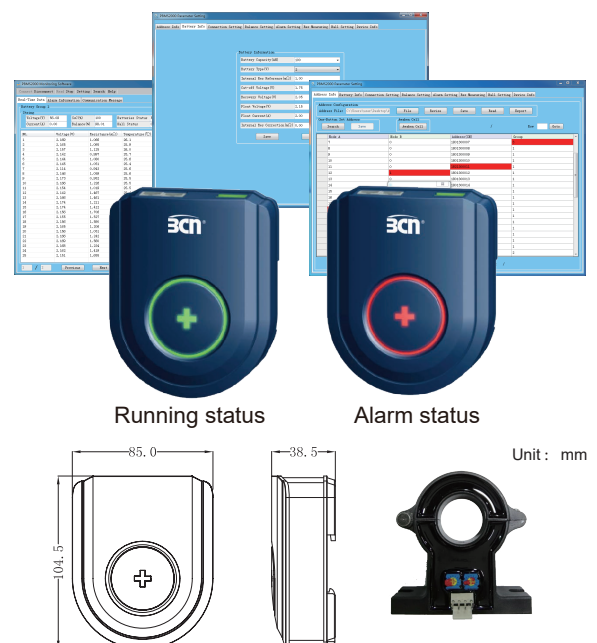
System Structure



Management Layer

BCNBMS2000 Battery Monitoring System Main Controller

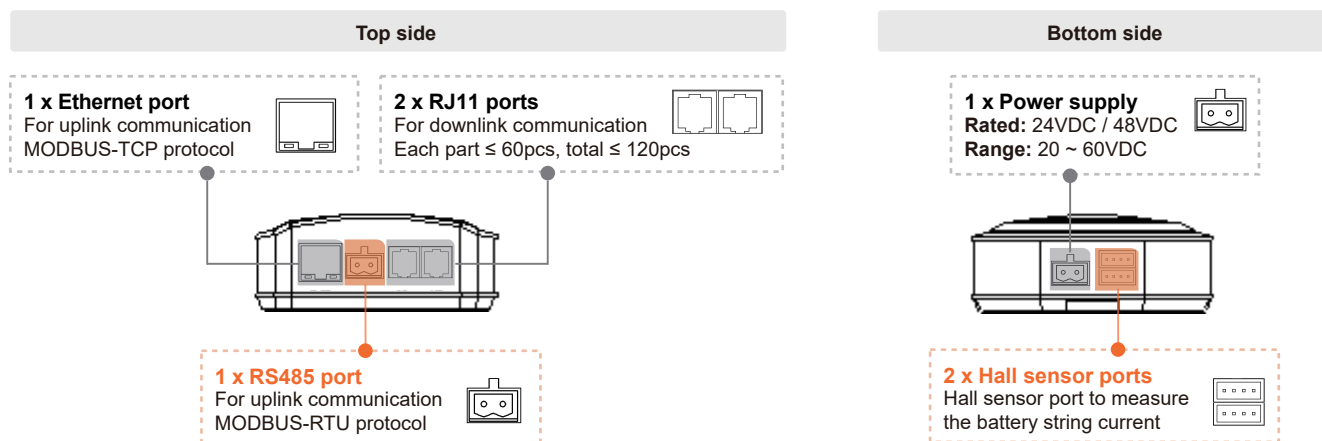
- Monitor battery string voltage, charge and discharge current
- Calculate battery string SOC
- Auto-balancing
- Auto-sensing for the battery sensor's ID address
- Setpoint alarm (upper limit / lower limit)
- Data collecting
- Data uploading function via build-in RS485 (Modbus-RTU) & Ethernet (Modbus-TCP or SNMP)
- Support 3rd party system
- Local display via HMI
- Accessories:
 - 1) Hall sensor and cable: range from 0 ~ ±1000A with 2m cable
 - 2) Communication cable : 5m with RJ11 port



Technical Specification

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



Battery Cell Sensor

BCNBAT61-02/BCNBAT61-06/BCNBAT61-12 Battery Cell Sensor

- BCNBAT61-02 for 2V battery, BCNBAT61-06 for 6V battery, BCNBAT61-12 for 12V battery
- Monitor individual battery voltage, internal temperature (negative pole), Impedance(ohmic value)
- Auto-balancing

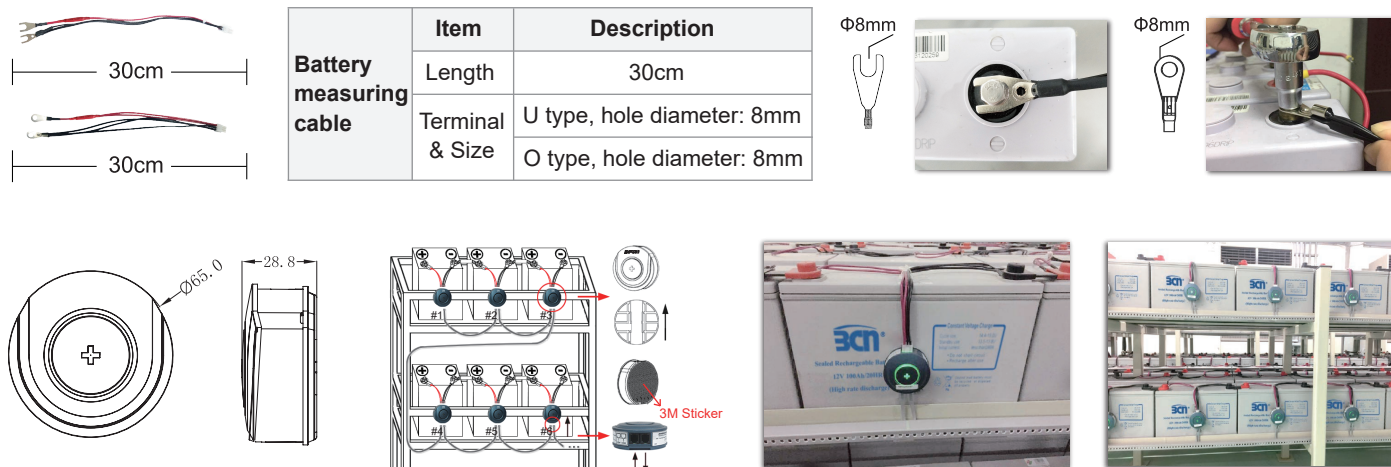


Item	Rated input voltage	Measuring range			
		Voltage	Internal temperature	Impedance	Power consumption
BCNBAT61-02	02V	1.6 ~ 2.6V ($\pm 0.2\%$)	-20°C ~ 85°C ($\pm 0.5\%$)	Range: 0.1m Ω ~50m Ω Repeatability error: 1.0% $\pm 25\mu\Omega$ Conformity error: 1.5% $\pm 25\mu\Omega$	Running: <70mW Sleeping: <8mW
BCNBAT61-06	06V	4.8 ~ 10V ($\pm 0.2\%$)			
BCNBAT61-12	12V	7.5 ~ 15.6V ($\pm 0.2\%$)			



BCNBMS2000 for Telecom Site

➤ Dimension and Installation



Order Information

System structure		Model	Description	Remark
Management layer		BCNBMS2000	Battery monitoring system main controller	One BCNBMS2000 can monitor Max. 1 string, total 120pcs batteries or Max. 2 strings, each string Max. 60pcs batteries. Hall sensor and cable: range from 0 ~ ±1000A with 2m cable. Communication cable: 5m with RJ11 port
Battery cell sensor		BCNBAT 61-02	02V battery cell sensor	One per battery cell
		BCNBAT 61-12	12V battery cell sensor	One per battery cell
Accessory	Cell sensor communication cable	BCNBAT-COM-40	Cable terminal: RJ11 port, length: 40cm (standard)	
		BCNBAT-COM-70	Cable terminal: RJ11 port, length: 70cm	
	Battery measuring cable	BCNBAT-C1-U-M8-30	Cable terminal: U type  , hole diameter: 8mm, length: 30cm (standard)	
		BCNBAT-C1-O-M8-30	Cable terminal: O type  , hole diameter: 8mm, length: 30cm	
	Hall sensor for BCNBMS2000	CS050EK1T5	Rated input: 50A	Measure range: 0 ~ ±100A, Φ20mm
		CS100EK2T5	Rated input: 100A	Measure range: 0 ~ ±200A, Φ40mm
		CS200EK2T5	Rated input: 200A	Measure range: 0 ~ ±400A, Φ40mm
		CS300EK2T5	Rated input: 300A	Measure range: 0 ~ ±600A, Φ40mm
		CS400EK2T5	Rated input: 400A	Measure range: 0 ~ ±800A, Φ40mm
		CS500EK2T5	Rated input: 500A	Measure range: 0 ~ ±1000A, Φ40mm
Optional module	Local display & operation	HMI-2000	7-inch touch-screen HMI for local display & operation	One per BCNBMS2000 Communication with BCNBMS2000 via RS485

Note: If battery terminal is M5, M6, M10, M12, M16, please contact our sales for customize requirements before placing the order.



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