BCMU-A

Battery Control and Monitoring Unit

Motive Power Systems
Reserve Power Systems
Special Power Systems
Service

Your benefits with HOPPECKE BCMU-A

- **Reduced operating costs** - permanent online monitoring supports early fault recognition and planning of suitable service
- **Increased system availability** - supports preventive maintenance
- **Easy installation** - sensor modules connected via data bus
- **Flexible configurations** - Monitoring of max. 12 combined cells or every single cell/block

Similar to the illustration

Typical applications of HOPPECKE BCMU-A

- **IT/Telecom/Industry**
  UPS systems
  Mobile and stationary IT/Telecom equipment
- **Industrial/municipal/ medical facilities**
  Switchgear
  Emergency power supplies
  Safety lighting
- **PV- and off-grid applications**
  Rural electrification
  Water treatment
  Backup-systems
- **Transportation**
  Signaling systems
  Switchgear

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BCMU-A

Features

- Easy installation of sensor modules on battery cells/blocks.
- Detection of voltage, internal resistance and temperature of battery cells/blocks.
- Monitoring of up to 256 accumulators.
- Detailed diagnosis via web-interface (web server integrated in central evaluation unit).
- Cost saving configuration variant for battery voltages ≤ 60 V: Monitoring of string voltage and balance voltage requires only two sensor modules per battery string.
- Signaling of alarms via network or modem (email, SMS, SNMP, MODBUS, RCCMD) and relay contact.
- Connection of optional additional current sensors for monitoring of string current.
- Optional connection of further sensors (temperature, humidity, oxyhydrogen gas sensor etc.).
- Optional GSM-modem for SMS-transfer or GSM-Router for remote access via GSM.

Example setup for single bloc monitoring

Technical Data:

	BCMU-A Webmanager Type II	BCMU-A sensors type C20/C30/C40/C41/C42/C-SYM
Measuring Values	Voltage, temperature and internal resistance via BCMU-A sensors (refer to right column). Optional connection of further sensors	Voltage, Temperature, Internal resistance: C20: 7 – 16 V (12 V nominal, 7– 600 Ah) C30: 4.5 – 10 V (6 V nominal, 7– 900 Ah) C40: 0.6 – 6 V (2 V nominal, 7–5000 Ah) Voltage, Temperature: C41: 0.6 – 6 V (4 V nominal, 7–5000 Ah) C42: 0.6 – 6 V (2 V nominal, 7–5000 Ah) C-SYM: 7 – 40 V
Interfaces	2 x RS-232 interfaces 2 x battery bus 1 x RJ45, 10/100 Mbit Ethernet 2 x LED (device status, device alarms, BCMU-A alarm LED) 1 x Buzzer with Mute button	2x RJ10 for BCMU-A battery bus 1x button for the addressing Temperature sensor -35 °C to +85 °C Optical display LED (green, red) 4-pole measuring protected via 2 fuses in measuring cable
Power Consumption	At 24 V/100 mA	30 mA per module (normal mode) Consumption at „Sleep Mode“: < 1 mA (Rev. 2.2)
Housing	Aluminum, RAL 7035 (light grey) ETL listed, FCC class A	ABS (UL pending, flame retardent, cooling fins)
Dimensions	125 x 130 x 30 mm (L x W x H)	80 x 55 x 27 mm (L x W x H)
Operating Conditions	0 to 60 °C, max. humidity 90%, non-condensing	0 to 60 °C, max. humidity 90%, non-condensing Protection class IP 30

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