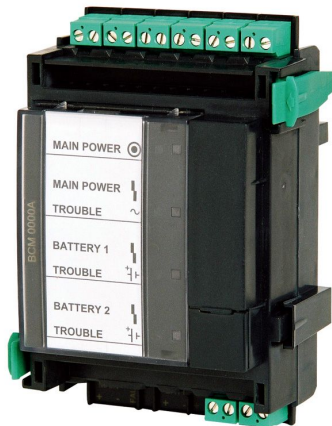




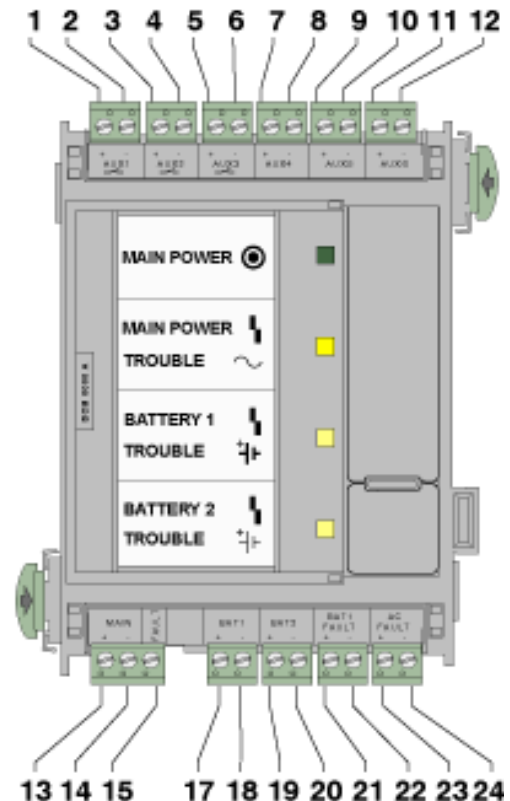
BCM 0000 A Battery controller module



The BCM 0000 A Battery controller module monitors the power supply of the entire control panel and controls temperature- and time-controlled charging of up to four batteries (12 V/40 Ah or 12 V/28 Ah).

The charging of batteries is started manually with the key (at $V_{\text{Batt}} < 22 \text{ V}$). The control panel can be started without any mains current if the batteries are charged.

System Overview



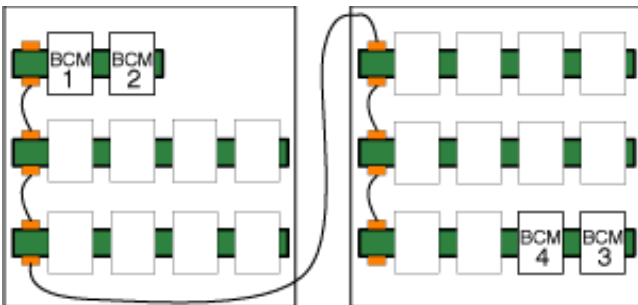
Pos.	Description	Connector
1-12	AUX n +/- AUX 1/2/3 AUX 4/5/6	Voltage outputs: - switchable, battery-buffed (programmable) - not switchable, battery-buffered
13-14	MAIN +/-	Power supply unit UPS
15	FAULT	Input fault, mains
17-18	BAT1 +/-	Batteries 1+2 pos./neg.
19-20	BAT2 +/-	Batteries 3+4 pos./neg.
21-22	BAT FAULT -/+	Battery fault
23-24	AC FAULT -/+	Main power fault signal output

Voltage outputs 1, 2 and 3: +24 V / max. 1.4 A
 Voltage outputs 4, 5 and 6: +24 V / max. 0.5 A
 Fault signal outputs: max. 500 mA (at 24 V DC)

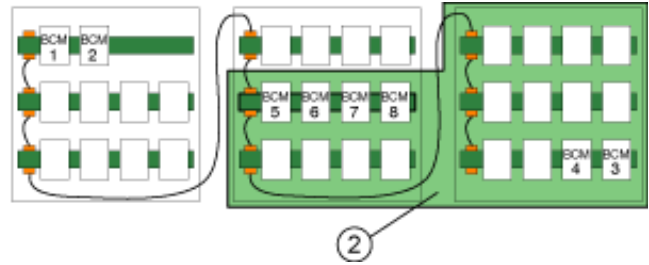
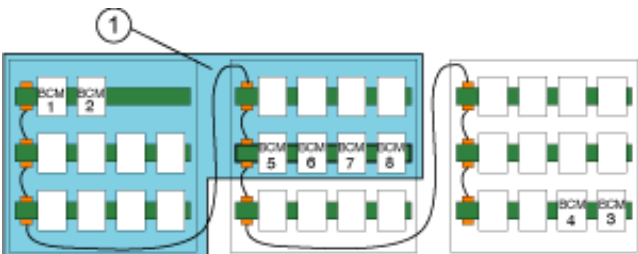
Installation/Configuration Notes

Configuration specifications for battery controller modules

- With 1 to 4 BCM modules:
 - max. 2 modules at the start of the first panel rail
 - max. 2 modules at the end of the last panel rail



- With 5 to 8 BCM modules:
 - 2 modules at the start of the first panel rail (BCM 1 and 2)
 - 2 modules at the end of the last panel rail (BCM 3 and 4)
 - additional BCM modules as shown



Pos.	Description
1	Area 1
2	Area 2

- Current consumption of the BCM modules must not exceed 10 A in Area 1.
- Current consumption of the BCM modules must not exceed 10 A in Area 2.
- This only applies to current consumption for consumer loads of the outputs 1-12 (AUX 1-6).

Parts Included

Qty.	Components
1	BCM 0000 A Battery controller module
1	Cable set with 2 connection cables: BCM/battery (90 cm) and battery/battery (17 cm)

Note If the batteries are located in a power supply housing, cable set CBB 0000 A is required (cable length for BCM/battery 180 cm).

Technical Specifications

Electrical

Input voltage	20 V DC ... 30 V DC (min...max) 5 V DC ± 5%
Current consumption	
• Standby	31 mA (at 24 V DC)
• Fault	40 mA (at 24 V DC)
Voltage outputs	
• 3 outputs, switchable	+24 V / 1.7 A, battery-buffed (programmable)
• 3 outputs, not switchable	+24 V / 0.5 A, battery-buffered
Capacity of the outputs BAT FAULT, AC FAULT	max. 500 mA (at 27 V DC)
Maximum current to the panel rails (PRS 0002 A/PRD 0004 A)	Max. 6 A via the BCM 0000 A Max. 8 A via the batteries

Mechanics

Operating/display elements	
• 1 green LED	Power ON
• 3 yellow LEDs	Trouble mains/batt. 1/batt. 2
• 1 key	Batteries charge at V < 22 V and central units start with battery current
Housing material	ABS plastic, Polyac PA-766 (UL94 V-0)
Housing color	Satin finish, anthracite, RAL 7016
Dimensions	Approx. 127 x 96 x 60 mm (5.0 x 3.8 x 2.4 in.)
Weight	
• Without packaging	Approx. 185 g (6.5 ounces)
• With packaging	Approx. 335 g (11.8 ounces)

Environmental conditions

Permitted operating temperature	-5 °C ... 50 °C (23 °F ... 122 °F)
Permitted storage temperature	-20 °C ... 60 °C (-4 °F ... 140 °F)
Permitted relative humidity	95%, non-condensing
Protective system compliant with IEC 60529	IP 30

Ordering Information

BCM 0000 A Battery controller module	BCM 0000 A
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Hardware Accessories

CBB 0000 A Cable set BCM-Batteries Used to connect a battery pair and a power supply housing to the BCM 0000 A Battery controller module, cable length BCM/battery 180 cm	CBB 0000 A
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Ordering Information

CPB 0000 A Cable set BCM-PSB Used to connect the BCM 0000 A Battery controller module to a UPS power supply, cable length 150 cm	CPB 0000 A
PDC 0000 A Cable set HPD/BCM/battery with 3 connection cables: HPD/BCM, battery/battery, HPD/battery	PDC 0000 A

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