



The Battery Module is a sealed lead acid battery which acts as a back-up energy source for the EIB system voltage during mains failures. The Battery Module can only be used in combination with the Uninterruptible EIB Power Supply. The Battery Module is a DIN rail mounted device and can simply be snapped onto the mounting rail under the Uninterruptible EIB Power Supply in the distribution board.

The back-up time is dependent on the bus load, however, a minimum of 10 minutes is guaranteed when the EIB line is at capacity (64 bus devices).

It is not permitted to connect several Battery Modules in parallel to the Uninterruptible EIB Power Supply or to connect the Battery Module in combination with other batteries.

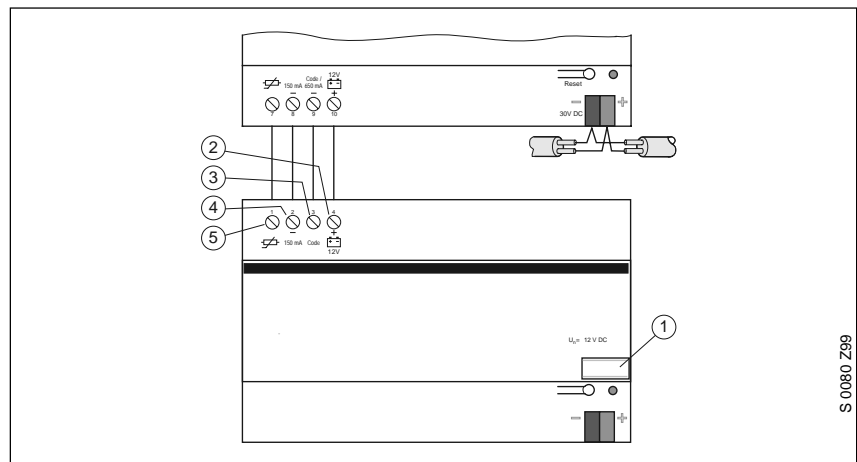
A temperature sensor for a temperature-controlled adjustment of the charging voltage is integrated in the battery module. An integrated fuse protects the Battery Module from short circuits.

The temperature sensor must always be connected to ensure that the battery is charged correctly!

Technical data

| | | |
|----------------------------------|---|---|
| Power supply | – Power supply | May only be connected to the Uninterruptible EIB Power Supply |
| | – Nominal voltage | 12 VDC |
| | – Battery capacity | 1 Ah |
| | – Charging current | 150 mA |
| | – Charging time | max. 10 h |
| Safety | – Mains failure back-up time | min. 10 minutes (dependent on bus load; the back-up time can be reduced due to aging of the battery module) |
| | – Temperature sensor | Integrated |
| | – Fuse | Self-healing (integrated) |
| | – None | |
| | – Operating and display elements | |
| Connections | – Power supply | 2 screw terminals |
| | – Temperature sensor | 2 screw terminals |
| Type of protection | Cable cross-section: | |
| | multi-core 0.2 – 2.5 mm ² single-core 0.2 – 4.0 mm ² | |
| Ambient temperature range | – IP 20, EN 60 529 | |
| | – Operation | + 5 °C ... + 45 °C |
| | – Storage | – 25 °C ... + 20 °C |
| Design | – Transport | – 25 °C ... + 50 °C |
| | – Modular installation device, pro <i>M</i> | |
| | – Plastic housing, grey | |
| Housing, colour | | |
| Mounting | – On 35 mm mounting rail, DIN EN 50 022 | |
| Dimensions | – 90 x 144 x 64 mm (H x W x D) | |
| Mounting depth/width | – 68 mm/8 modules at 18 mm | |
| Weight | – 0.72 kg | |
| CE norm | – In accordance with the EMC guideline and the low voltage guideline | |

Device connection



- 1 Label Carrier
- 2 Battery connection „+“
- 3 Code (temperature sensor „-“)

- 4 Battery „-“ 150 mA
- 5 Connection for temperature sensor

Planning and application

Device implementation

The following guidelines should be noted when using the Battery Module AM/S 12.1:

1. The Battery Module may only be connected to the Uninterruptible EIB Power Supply.
2. The Battery Module may only be installed on a horizontal mounting rail (35 mm, EN 50 022) in a wall-mounted distribution board.
3. The Battery Module may not be connected in series or in parallel to other Battery Modules or other sealed lead acid batteries.
4. In the supplied state, the Battery Module is charged or partially charged. The Battery Module must not be stored in a discharged state.

If the Battery Module is stored for longer periods without connection to the Uninterruptible EIB Power Supply, it must be fully charged at least every 6 months. The Battery Module can be stored for max. 2 years at a storage temperature of 20°C.

5. Once the Battery Module has been discharged during normal operation, it must be recharged as soon as possible.
6. Due to the life span of the sealed lead acid battery, it is advisable to replace the Battery Module with a new device approx. every four years. Used Battery Modules can be returned to your EIB representative for disposal.