

INSTALLATION AND COMMISSIONING INSTRUCTION

Power-Module PM

Power-Module PM



Part.-No.: 680050

Application: Module for the self installation on customer side into an EMB 8000 control unit, for monitoring of the main power supply.

Operating voltage:	24 V DC
Internal consumption:	16,1 mA
Housing (WxHxD):	100 x 120 x 45 mm, ABS, black
Module units:	2 ME
Display:	Power, fault, status
Connections:	Plug-in terminals 1 mm ² (rigid wire), socket and plug with cable for internal BUS
Feature / Equipment:	Fixing on 35-mm mounting rail, configuration of the functional and performance features which deviates from the standard systems via configuration software EMB 8000

Power-Module PM

Setting of functions requires the software of the control unit's manufacturer.

Functions:

- Monitors the main power supply.
- Controls the charging voltage of the back-up battery.
- Switches to back-up battery operation during power failure.
- Has a connection for a sensor „temperature-dependent charging of back-up batteries“.

Take the module into operation:

- Integrated Power-Modul **PM** into the internal **BUS**.
- Power Modul **PM** und Power-Modul-Extension **PME** in the first position
- Fixing on 35-mm mounting rail.



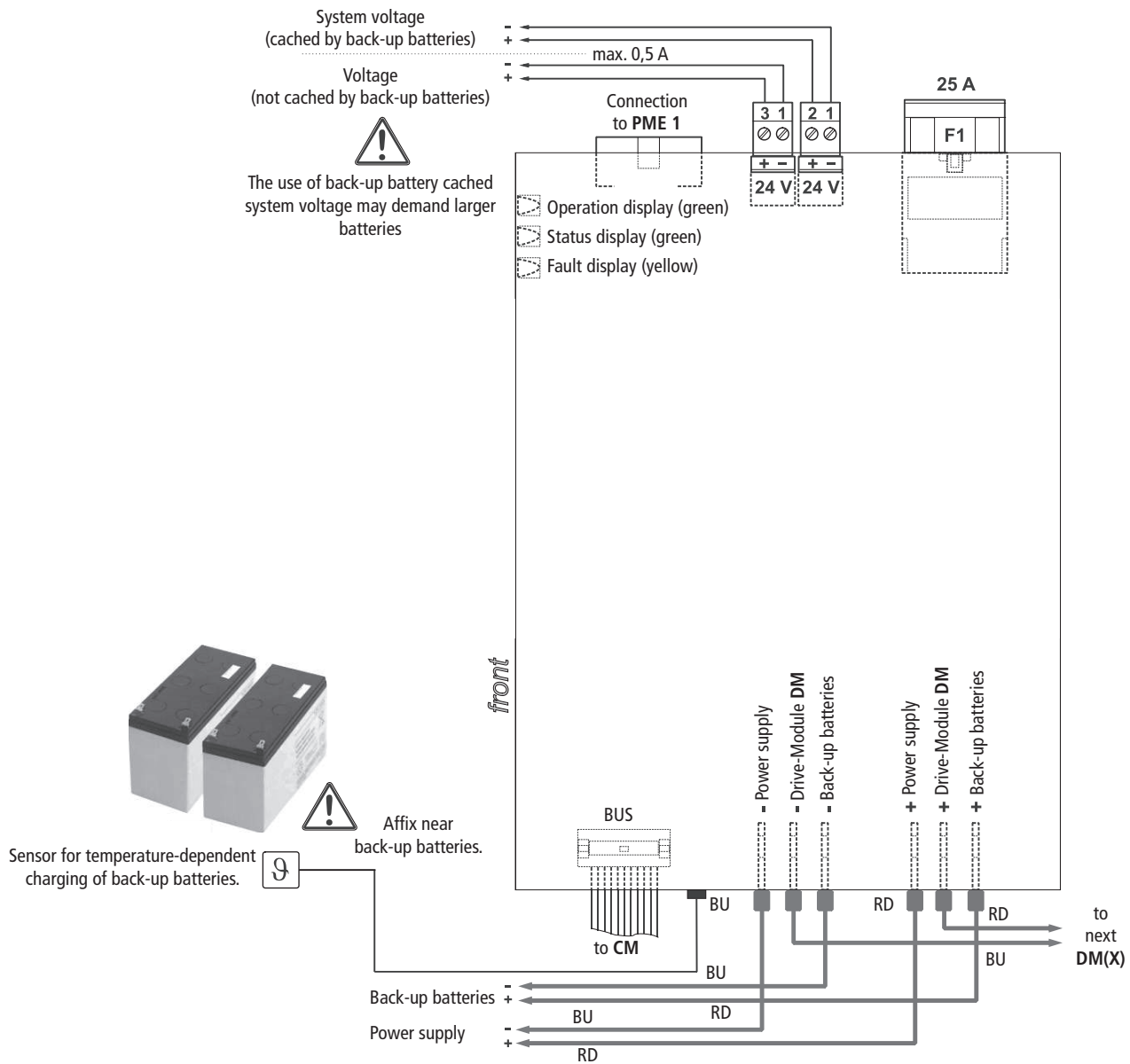
Warranty claims require proper and professional assembly, installation and maintenance in accordance with national regulations and manufacturer's instructions as to SHEV Control Unit. Always disconnect the system from power supply and back-up battery voltage prior to any installation or modification work on the control unit.



Strictly observe the information given in the SHEV Control Unit **EMB 8000** description when mounting the Power-Module **PM**. Setting of functions requires the software of the control unit's manufacturer. Keep this instruction over the lifetime of the control unit.

CONNECTION: POWER-MODULE PM

Connection: Power-Module PM (VdS-tested)

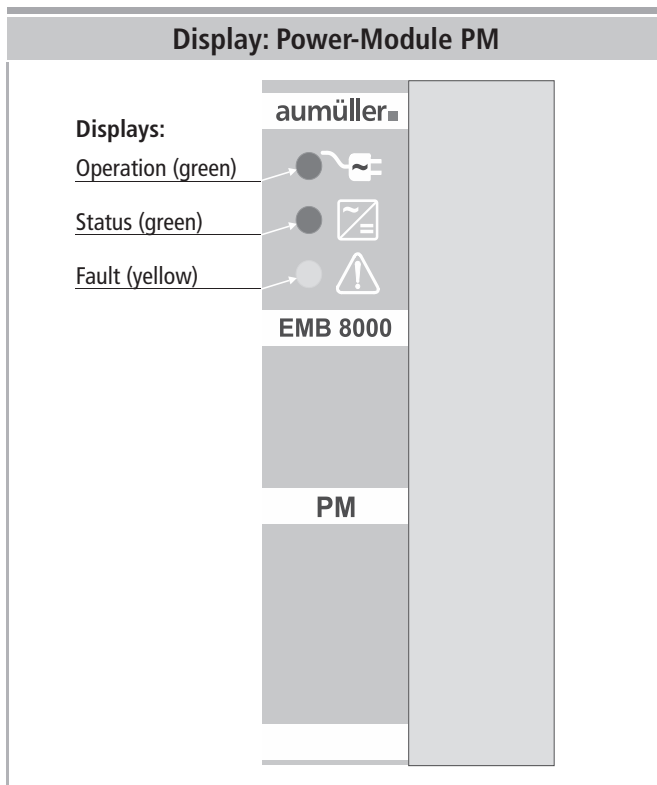


BK	=	black
BN	=	brown
BU	=	blue
OG	=	orange
RD	=	red

INDICATOR AND CONTROL ELEMENTS

Display the operating state	
Icon	Importance
	Display green: <u>Permanently lit:</u> Correct conditions <u>Blinks:</u> Back-up battery operation (power failure)

Displays of status: Fault	
Icon	Importance
	Display yellow: Fault



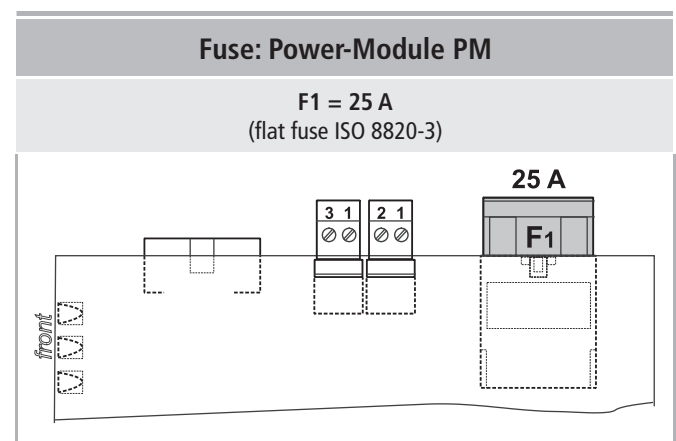
TROUBLESHOOTING AND REPAIR

All functions and system components that are important for the SHEVS operation are constantly monitored for faults. A fault indication signals the type of fault and, respectively, possible errors when connecting system components during commissioning of the Control Unit.

Power module PM		
Back-up battery operation (power failure)	Cause / possible solution	
green	no signal	
green		Check the mains voltage
Fault		Cause / possible solution
green	no signal	Power failure or power supply too low (<20 V)
green		Communication fault BUS connection
green	no signal	no power supply
yellow	████████	Fuse of power module PM or charging switch defective Reacts with a delay of approx. 30 seconds.
yellow	■ ■ ■	No back-up battery connection or defective fuse at power module extension PME Reacts with a delay of approx. 30 seconds.
yellow		System voltage is switched off due to overload Reacts with a delay of approx. 30 seconds.

FUSE

The fuse is located on top of the respective module. The following modules are secured with fuses:





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