

EMERGENCY POWER MANAGEMENT

EN 54-4 CERTIFIED / COMPLIANT TO VDE 0833-4 / VDE 0828 / DIN IEC 50849

RCS



Conforms to:

EN 54-4:2007, EN 12101-10, NFS 61940

Description

The digital emergency management ESP-2000 B was developed for voice alarm systems, which must correspond to the standard **VDE 0833 - part 4**. All errors are displayed and reported on fault signal contacts, as well as a buzzer and an LED. The device is still certified to EN 54-4.

Please consider the following features:

- Network fault monitoring with switchover to standby power mode.
- Monitoring of battery errors (with internal resistance measurement).
- Monitoring of the 6 or 12 power outputs for amplifiers.
- Function for a balancing charge to avoid different voltages of the individual battery cells.
- A quick charge function with up to 16A or 32A, allows a rapid recharge the battery packs even with large capacities.
- Fault signals are realized in the event of a fault with sloping relay.
- Integrated depth discharge protection for 24 V batteries.

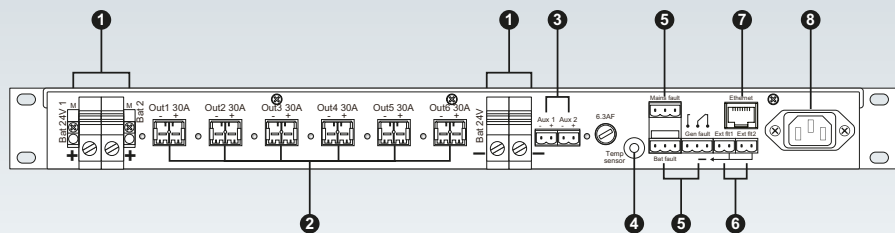
- Fault indication signal through LED's on the front side of the device and fault indication contact (potential-free changeover contact) on the rear side of the device.
- A temperature sensor adjusts the allowed charge current to the existing temperature in the PA cabinet.
- All commercially available lead-acid batteries can be used.
- Equipped with a switching power supply and digital charger unit.
- USB interface to configure operating parameters.
- Configuration software in scope of supply.

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Technical data	ESP-2000 B	ESP-4000 B
End-of-charge voltage	approx. 27,1 V DC	approx. 2x 27,1 V DC
Charging current	16 A	2x 16 A
Power consumption	384 W	748 W
Power supply	230 V AC 50-60 Hz	
Battery capacity	65-320 Ah	2x 65-320 Ah
Dimensions (WxHxD)	483 x 44 x 358 mm, 1 RU	483 x 88 x 358 mm, 2 RU
Weight	5,3 kg	7,9 kg

- 1 Connection for two 24V batteries and 2 ports to balance the medium voltage
- 2 6 outputs for amplifier connection
- 3 Double socket for connection of the mains voltage control and other modules
- 4 Connection for temperature sensor
- 5 3 Outputs for signals (Mains-, Bat- and Gen-Fault)
- 6 2 inputs for external error signals
- 7 RJ-45 connector (Ethernet connection)
- 8 AC IEC connector inlet

Rear view



Model designations

- EN 54-4 Emergency Power supply**, 1 RU, with 6 outputs **ESP-2000 B**
- EN 54-4 Emergency Power supply**, 2 RU, with 12 outputs **ESP-4000 B**
- Lead Acid Battery-Set**, for external operation (65 Ah) **BA-140**
- Lead Acid Battery-Set**, for external operation (78 Ah) **BA-160**