



AMBIENT SYSTEM

Ambient System SMART-PSM48 power management unit with battery charger

Product code SMART-PSM48 · Voice alarm systems > Amplifiers and power supplies

Power management unit for the smartVES system that distributes 48 V DC to amplifiers and other devices and charges and monitors the battery bank. Up to four SMART-PS48800 power supplies, load up to 3,200 W. EN 54-4.

- Approved to EN 54-4, CPR 1438-CPR-0948
- Distributes 48 V DC to 8 outputs
- Battery charger: 4 × 12 V VRLA battery, 15–200 Ah
- Temperature-compensated charging and battery circuit resistance monitoring
- Up to 4 SMART-PS48800 power supplies



Product description

SMART-PSM48 distributes DC power from the power supply units and the battery bank to the devices of the smartVES voice alarm system. According to the manufacturer, the supply power in battery operation is up to 3.2 kW (48 V). The unit meets the requirements of EN 54-4.

The main power source is provided by 800 W SMART-PS48800 power supply units, of which up to four can be connected. The power supply units are mounted in the SMART-PF4 mounting frame. Standby power comes from a battery bank of four 12 V VRLA batteries with a capacity of up to 200 Ah.

The power management unit keeps the battery bank charged and compensates the charging parameters for temperature. It monitors the series resistance of the battery bank and its wiring in accordance with Annex A2 of EN 54-4.

Technical data

Product code	SMART-PSM48
Manufacturer	Ambient System
Product group	Voice alarm systems > Amplifiers and power supplies
Supply voltage	230 V AC +10 / -15%, 50/60 Hz
Maximum rated power consumption	885 W / 3.85 A
Efficiency	Over 90% (rated power)
DC inputs	For 4 SMART-PS48800 power supply units (screw terminals)
DC input protection	4 × 20 A, 58 V DC
DC outputs	8 × 48 V, each max. 30 A (max. 63 A in total)
Maximum total load	3,200 W

Battery bank	4 × 12 V VRLA, 15–200 Ah
Charging current	Max. 14 A
Charging voltage	54.6 V ± 0.6 V (25 °C)
Maximum resistance of wiring and fuses	10 mΩ
Total series resistance of the battery circuit	28–100 mΩ
Maximum configuration	1 × SMART-PSM48, 4 × SMART-PS48800, 1 × SMART-PF4
EN 54 approval	EN 54-4
CPR	1438-CPR-0948
IP rating	IP30
Operating temperature	–5...+40 °C
Dimensions	482 × 85 × 443 mm (W × H × D)
Weight	7.2 kg
Mounting	19-inch rack

Documents

The manufacturer's original documents can be downloaded from the product page (QR code at the top of this sheet).

Datasheet: SMART-PSM48, SMART-PS48800 and SMART-PF4 (Ambient System)

CPR certificate (series): 1438-CPR-0948, smartVES system

Declaration of performance (DoP) (series): smartVES power supply equipment UZS SMART-20230925

EU declaration of conformity (series): smartVES power supply equipment UZS SMART-DCE-20231025

Datasheet (series): smartVES voice alarm system (Ambient System)

User manual (series): smartVES voice alarm system

Request a quote or ask for more information

Sales +358 40 668 7641 · myynti@pap.fi · Mon–Fri 8 am – 4 pm (Finnish time)

Up-to-date information and documents: pap.fi/en/tuote/smart-psm48/