



# Power Supply Equipment

ABT-PSM48E / PS48800 / PF4

EN 54-4

EN 12101-10

- ✓ *Compliance with:*
  - › *EN 54-4 standard applicable to Voice Evacuation System*
  - › *EN 12101-10 standard applicable to Smoke and Heat Control System*
- ✓ *ABT-PSM48E – Designed for the MULTIVES system*
- ✓ *ABT-PSM48E – can be used in every 48 V PAVA and other systems*

# ABT-PSM48E / Power Supply Manager

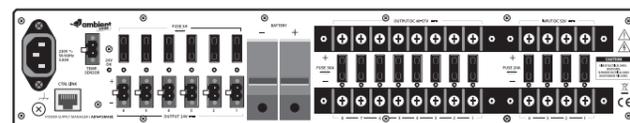
# ABT-PS48800 / Power Supply Unit

**EN 54-4**
**EN 12101-10**
**POWER SUPPLY EQUIPMENT**

Power Supply Manager / Front



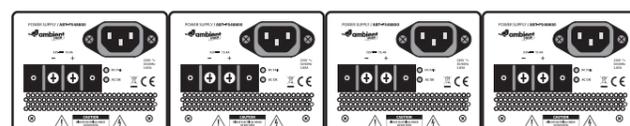
Power Supply Manager / Back



Power Frame / Front



Power Supply Units / Back



ABT-PSM48E Power Supply Manager is designed for distribution of DC Power Supply from Power Supply Units (PSU) and a back-up battery. The unit controls battery charging and distributes power supply to all Voice Evacuation System (VES) equipment at max 60 A. When the system uses battery back-up, the power supplied is 3.2 kW (48 V). The unit complies with the EN 54-4 VES standards and also EN 12101-10 Smoke and Heat Control System standards.

As a main source of energy distribution, the manager uses external modules 800 W (ABT-PS48800) for 48 V. PSM48 power supply manager uses internal

power converter for 24 V equipment. As a source of stand-by power supply it uses the battery bank of the capacity of up to 200 Ah.

ABT-PSM48E cooperates with the 4x12V VRLA battery bank. It maintains the bank in charged condition, ensures temperature compensation of charging parameters and monitors serial resistance of the battery and its wiring as specified in Exhibit No. A2 to the EN 54-4 Standard.

ABT-PSM48E co-operates with up to 4 modules of ABT-PS4880 Power Supply Units. The manager ensures safe

connection for the purpose of parallel operations and monitors the output parameters of each power supply unit.

ABT-PS48800 is designed for assembling in a dedicated ABT-PF4 Power Supply Unit Frame. The elements of the system are designed for assembling in a Rack 19" IP30-type.

CHARACTERISTICS	ABT-PSM48E
Maximum configuration	1x ABT-PSM48E – Power Supply Manager 4x ABT-PS4880 – Power Supply Unit 1x ABT-PF4 – Power Supply Units Frame
AC power supply	230 VAC + 10%-15%; 50/60 Hz
Max nominal power consumption	885 W / 3.85 A
Efficiency at rated power	> 90%
DC input	4; bolted terminals; dedicated power supply unit ABT-PS48800
DC input protection	4x 20 A 58 Volt DC
DC outputs	8 x 48V, each output max. 30 A (total for all 8 outs max 63 A) 6 x 24V, each output max. 5 A (total for all 6 outs max. 6,25 A)
Summary maximum DC output load (24 V and 52 V)	3200 W
Battery (type)	4 pieces, VRLA 12 V 15-200 Ah
Charging current	max. 14 A
Charging voltage	54,6 V ± 0,6 V (at 25°C)
Maximum resistance of wiring and fuses	10 mΩ
Maximum total serial resistance of wiring, fuses, and batteries	28 – 100 mΩ
Operating temperature	-5°C up +40°C
Dimensions	482 (W) x 85 (H) x 443 (D)
Weight	7.2 kg
	ABT-PS48800
AC power supply	230 VAC +10% -15%, 50/60Hz, 3.85 A Wire with IEC 60320 C13 3x0,75 mm <sup>2</sup> coupling (supplied with the unit)
Maximum power consumption	885 W / 3.85 A
Efficiency at rated power	> 90%
AC input protection	T6.3 A/250 V 5x20mm slow-blow fuse (accessed when the casing is open)
Protection from electric shock	Class I (EN 60065)
DC output	52 VDC; max. 15.4 A
Dimensions	85 (W) x 95 (H) x 395 (D)
Weight	2.6 kg



*We make everyday life safer*

*Ambient System products are continually improved. All specifications are therefore subject to change without prior notice.*

v.4.0