

APS-724

BACKUP POWER SUPPLY

APS-724 is a switch-mode backup power supply for devices requiring 24 V DC, included in the alarm system or other installations.

The power supply is characterized by a high output current of 7 A, which determines the maximum current delivered by the power supply connected to the load. When the battery is being charged, this value is reduced by the maximum battery charging current: 6 A (powering devices) + 1 A (charging battery). Energy efficiency of the APS-724 power supply is up to 94%.

The system complies with EN 55011 Class B in terms of the level of conducted and radiated EMI. It also meets the requirements of EN 60950-1 safety standard.

Indisputable advantages of its structure include: a built-in interference suppression filter and an active system for power factor correction (PFC) – up to 0.99. This ensures very good and stable operating parameters, also in the presence of high fluctuations in the supply voltage.

Lead-acid batteries or other battery types with similar charging characteristics can be connected to the device. This enables uninterrupted operation of the system to be maintained – even for several hours – when the primary power source fails.

Additionally, APS-724 comes with:

- battery charge status control (including internal resistance measurement)
- battery deep discharge protection.

The power supply is provided with 4 OC type fault signaling outputs. The LEDs located on the anodized aluminum enclosure indicate:

- power output status
- battery status
- AC status
- too high temperature of the power supply.

Audible signaling of troubles is also available.

The system is provided with over-current and short-circuit. The power cable is connected to the IEC C14 connector.

Features:

- 24 V DC switch-mode power supply
- output current: 7 A or 6 A (powering devices) + 1 A (charging battery)
- compliant with EN 60950-1 safety standard requirements
- compliant with EN 55011 Class B standard regarding the level of conducted and radiated EMI
- active power factor correction system (up to 0.99)
- energy efficiency up to 94%
- short-circuit and over-current protection
- designed for use with sealed lead-acid battery
- battery deep discharge protection
- 4 OC outputs for trouble indication
- optical indication of power output status, battery status, AC status and too high temperature of the power supply
- audible indication of troubles
- anodized aluminum enclosure
- IEC C14 power cable connector

TECHNICAL DATA

| | |
|--|-------------------|
| Environmental class | II |
| Enclosure dimensions | 101 x 68 x 291 mm |
| Operating temperature range | -10°C...+55°C |
| Battery failure voltage threshold (±10%) | 23 V |
| Battery cut-off voltage (±10%) | 21 V |
| Energy efficiency | up to 94% |
| Actual output voltage | 27 V DC |
| Nominal output voltage (according to IEC 38) | 24 V DC |
| PF (Power Factor Correction) | up to 0,98 |
| Power supply type (according to EN50131) | A |
| Supply voltage | 230 V AC |
| Output current (operation without battery connected) | 7 A |
| Output current (operation with battery connected) | 6 A |
| Battery charging current | 1 A |
| OC type outputs (WS, WB, WP, WT) | 50 mA / 24 V DC |
| Common ground | 1,34 kg |