

AUPS-70-240-OF

Buffer Power Supply 24V 3A 72W

built-in module

INSTRUCTION MANUAL

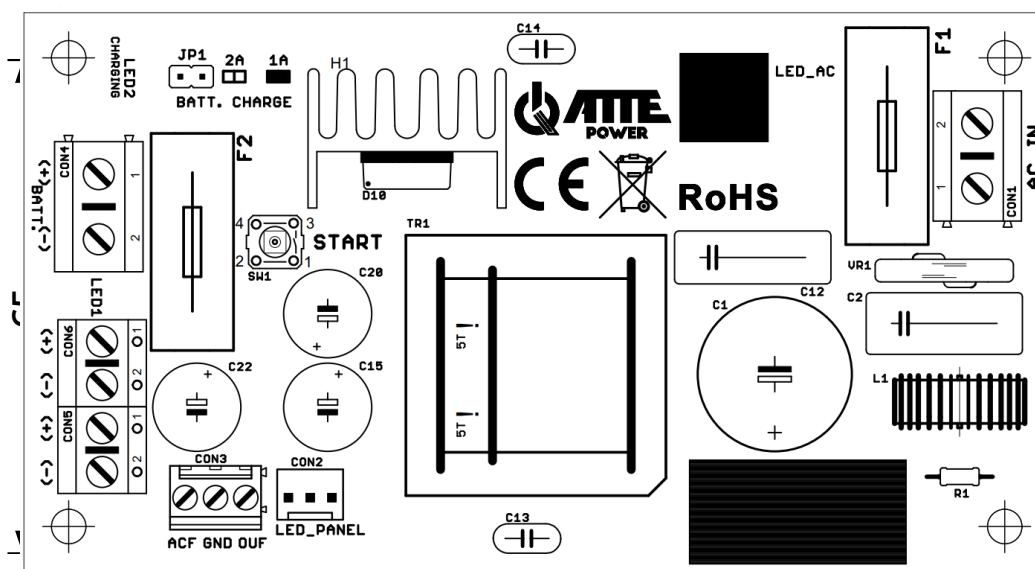
AUPS series buffer power supply designed for CCTV, access control and alarm systems.

The device is a convenient solution to the problem of buffer power supply for loads requiring uninterruptible operation during periodic mains power failures. The use of the buffer power supply allows for a significant increase in the operating time of the system compared to applications using a classic UPS.

The system is designed to work with maintenance-free SLA batteries (gel and AGM).

An additional START button enables the power supply to be forced to start only from the battery without the available 230V mains voltage, the so-called 'cold start'.

The open frame (OF) construction allows the device to be installed in any suitable third party housing. It is highly recommended however to use our dedicated ABOX series enclosures that come with a pre-drilled backplate (4,8mm diameter, pitch 10,8mm) allowing both horizontal and vertical installation.



General view of the device

Technical Specification

Battery	2 x gel or AGM 12V battery
Output Voltage	21,6 ... 27,6 VDC
Output Current	3 A - continuous 5 A- maximum (while charging)
Power	72 W - continuous 120 W - maximum (while charging)
Efficiency	90% @70 W
Input Voltage	190 ... 260 VAC, 50 Hz
Battery Charging Current	1 A lub 2 A (selected by jumper JPI)
Power Supply Input Protection	Slow Blow Fuse 3,15A
Power Supply Output Protection	Mains operation: Overload electronic protection 6A (after short circuit it may be necessary to restart power supply)
Battery Circuit Protection	Battery operation: Slow Blow Fuse 3,15A Battery reverse polarity protection and overload protection: Slow Blow Fuse 3,15A
Indication	Deep discharge protection: Battery disconnection below 21,6 V with auto recovery after mains returning LED1 YELLOW - mains power supply LED2 GREEN - output voltage LED3 RED - battery charging
Technical Outputs	OUF – lack of +DC_OUT voltage ACF – lack of AC voltage
Startup at AC Loss	Open collector output with maximum 50mA current (each output) START button
Housing Construction	Open frame module
Assembly	Snap-on spacers, mounting holes in 10.8 mm pitch
Operating Temperature	-25 ... +50°C
Dimensions	118 x 65 x 45 mm
Weight	0,15 kg

Safety Precautions

- The installation and wiring must be performed by a competent engineer. For permanently connected equipment, a readily accessible disconnect device must be incorporated in the fixed wiring. The device must be connected to the mains supply 230 VAC 50 Hz via a specified fused connection outlet.
- Despite the fact that the enclosure of the device has a high degree of protection, it is recommended that the device should be mounted in places protected from direct influence of atmospheric factors, in particular against rain and direct sunlight.
- Since the power supply does not have a switch to isolate the mains supply, the installer is responsible for notifying the user of the means of isolating the mains supply from the device.
- When replacing fuses, use original or compatible types. The exact parameters of the fuses can be found on the inside of the device cover.

WARNING



Before installation and during maintenance make sure that the mains voltage 230VAC is disconnected

Installation

- Mount the device in the selected location and connect the connecting wires.
- Connect Protective Earth wiring.
- Connect mains power supply 230VAC to L, N terminals.
- Optionally connect outputs OUTF and ACF.
- Using the supplied cable, connect the two 12V batteries in series (plus to minus). The total voltage of correctly connected batteries should be close to 24V.
- Connect the batteries connected in series to the terminals 'BATT.' screw terminal strip maintaining the correct polarity.
- We recommend using brand new batteries of the same capacity, similar internal resistance, of the same make and type, from the same production run, and with a similar degree of wear.
- Set the charging current using the JPI jumper.
- LED AC and LED1 should light. In case if LEDs do not light check fuse F1.
- Turn on mains 230VAC power supply.
- Check output voltage at terminal DC_OUT. Correct voltage should be in range 21,6 ... 27,6V.
- After checking system operation, close the enclosure

Operation Indication

- LED1 YELLOW – mains power 230VAC
- LED2 GREEN – output voltage
- LED3 RED – battery charging

WEEE MARKING



This symbol on the product or on its packaging indicates that the product must not be disposed of with normal household waste. Instead such equipment must be disposed of by arranging to return it to a designated collection point for the recycling of waste electrical and electronic equipment.

