

## **AUPS-70-120-L1**

### **Buffer Power Supply 12V 6A 72W**

### **in outdoor enclosure with space for 1x Batt 7Ah**

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## **INSTRUCTION MANUAL**

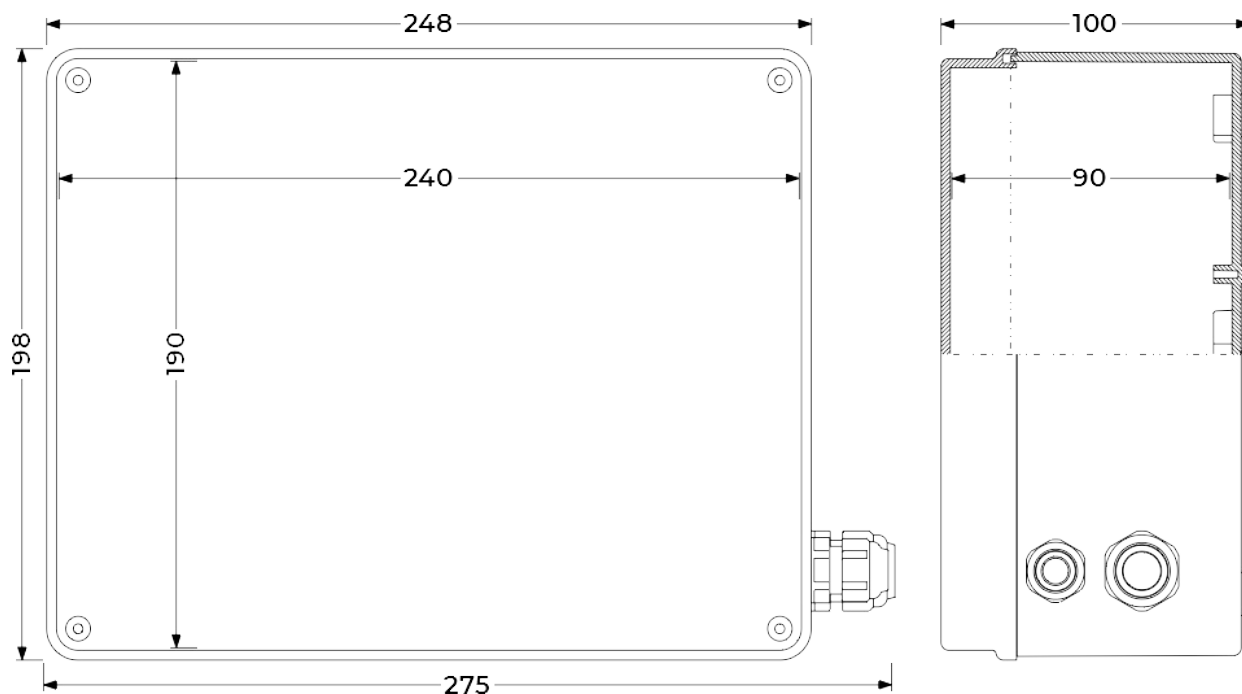
AUPS series buffer power supply designed for CCTV, access control and alarm systems.

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 device is enclosed in an ABOX series outdoor enclosure providing a convenient solution to the problem of protecting outdoor-mounted electronic modules and cable connections. High-quality plastic ensures resistance to UV radiation and other adverse weather conditions.



**General view of the device**

## Technical Specification

|                                |                                                                                                                                                                                                                     |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery                        | 1 x gel or AGM 12V / 7 battery                                                                                                                                                                                      |
| Output Voltage                 | 10,8 ... 13,8 VDC                                                                                                                                                                                                   |
| Output Current                 | 6 A - continuous<br>8 A - maximum (while charging)                                                                                                                                                                  |
| Power                          | 72 W - continuous<br>96 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:<br>Overload electronic protection 12A (after short circuit it may be necessary to restart power supply)                                                                                            |
| Battery Circuit Protection     | Battery operation:<br>Slow Blow Fuse 6,3A<br>Battery reverse polarity protection and overload protection:<br>Slow Blow Fuse 6,3A                                                                                    |
| Indication                     | Deep discharge protection:<br>Battery disconnection below 10,8 V with auto recovery after mains returning<br>LED_AC (yellow) - mains power supply<br>LED1 (green) - output voltage<br>LED2 (red) - battery charging |
| Technical Outputs              | OUF – lack of +DC_OUT voltage<br>ACF – lack of AC voltage                                                                                                                                                           |
| Startup at AC Loss             | Open collector output with maximum 50mA current (each output)<br>START button                                                                                                                                       |
| Housing Construction           | ABOX-L1 enclosure:<br>Housing material - plastic<br>Colour grey (RAL7035)<br>Mounted cable glands 1 x M16, 1 x M20                                                                                                  |
| Assembly                       | Snap-on spacers, mounting holes in 10.8 mm pitch                                                                                                                                                                    |
| IP rating                      | IP56                                                                                                                                                                                                                |
| Operating Temperature          | -25 ... +50°C                                                                                                                                                                                                       |
| Dimensions                     | 190 x 240 x 90 mm (inside)<br>198 x 248 x 100 mm (outside)                                                                                                                                                          |
| Weight                         | 0,93 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 mains power supply 230VAC to L, N terminals.
- Optionally connect outputs OUTF and ACF.
- Connect battery 12V (buffer operation).
- Set the charging current using the JP1 jumper.
- Turn on mains 230VAC power supply.
- LED\_AC and LED1 should light. In case if LEDs do not light check fuse F1.
- Check output voltage at terminal DC\_OUT. Correct voltage should be in range 10,8V ... 13,8V.
- After checking system operation, close the enclosure.

## Operation Indication

AUPS-70-120-OF (module):

- LED\_AC (yellow) - presence of mains voltage
- LED1 (green) - presence of output voltage
- LED2 (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.**

