

AUPS-40-120-OF

Buffer Power Supply 12V 3,5A 42W

built-in module

INSTRUCTION MANUAL

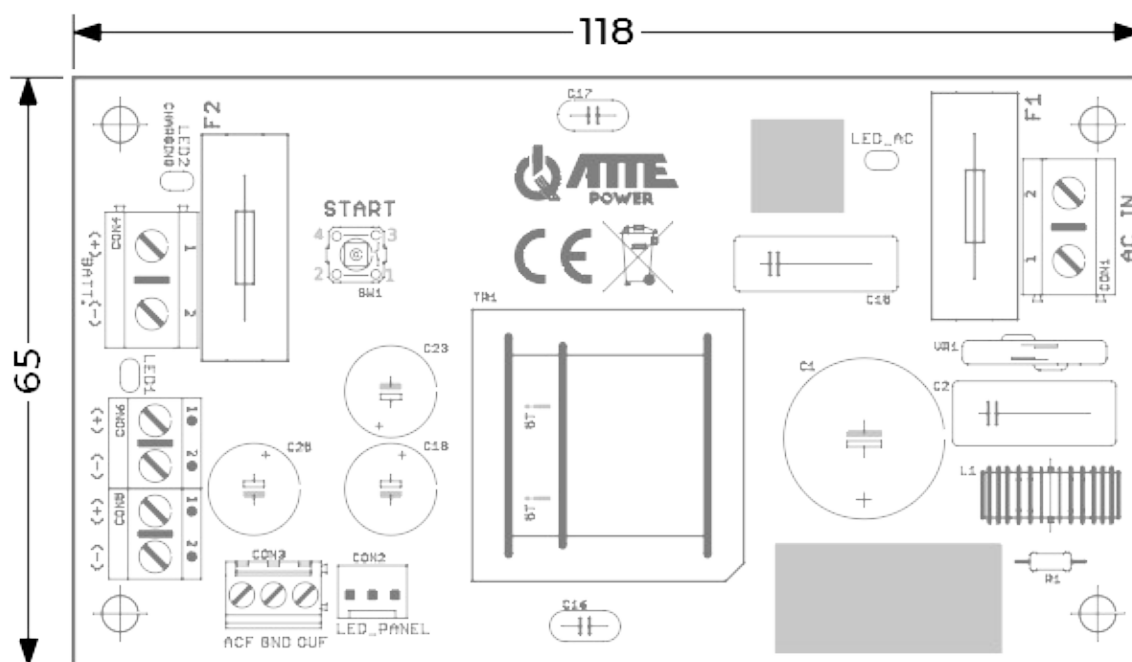
AUPS series are a buffer power supply modules designed for CCTV systems and access control systems.

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 systems are adapted to work with lead-acid or dry SLA batteries.

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 design allows the device to be built into any enclosure, but the most convenient way to do this is with dedicated ABOX series enclosures and mounting plates, equipped with a system punch-out in a 10.8mm grid. This is compatible with the mounting hole spacing of the built-in modules. This system solution allows the selected devices to be mounted vertically or horizontally in any punched-out part of the housing or mounting plate.



General view of the device

Technical Specification

Battery	1 x gel or AGM 12V / 7 ... 18Ah battery
Output Voltage	10,8 ... 13,8 VDC
Output Current	3,5 A - continuous 5 A - maximum (while charging)
Power	42 W - continuous 60 W - maximum (while charging)
Efficiency	92% @40 W
Input Voltage	190 ... 260 VAC, 50 Hz
Battery Charging Current	up to 1,5 A (dependent on battery discharge)
Power Supply Input Protection	Slow Blow Fuse 3,15A
Power Supply Output Protection	Mains operation: Overload electronic protection 7A (after short circuit it may be necessary to restart power supply)
Battery Circuit Protection	Battery operation: Slow Blow Fuse 6,3A Battery reverse polarity protection and overload protection: Slow Blow Fuse 6,3A
Indication	Deep discharge protection: Battery disconnection below 10,8 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 Open collector output with maximum 50mA current (each output)
Startup at AC Loss	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 32 mm
Weight	0,12 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 OUF and ACF.
- Connect battery 12V (buffer operation).
- Turn on mains 230VAC power supply.
- To start the unit without AC mains power, press the 'START' button.
- 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

- 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.

