

## **APS-90-480-E**

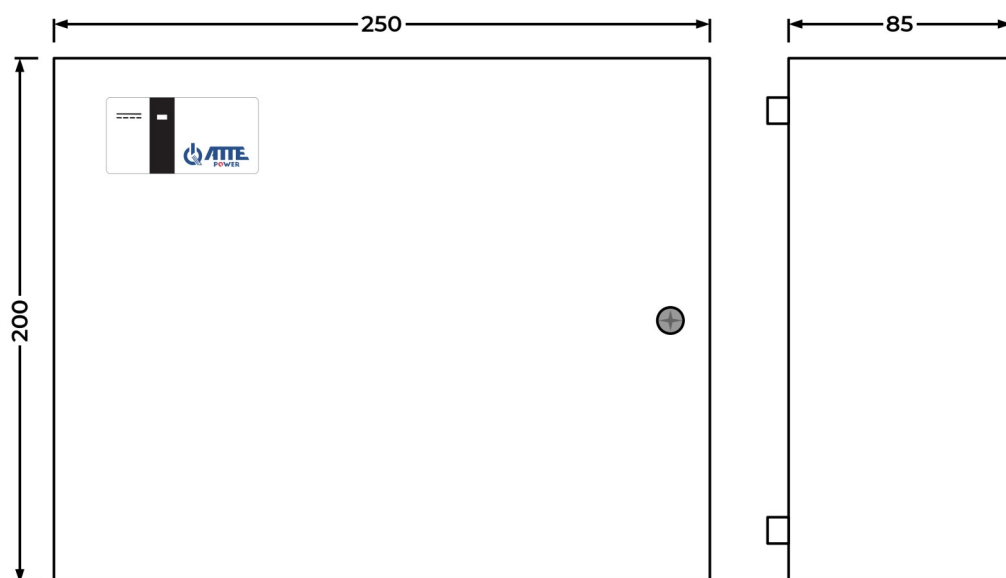
### **Power supply SMPS 48V Iout 2A Pout 96W in indoor enclosure IP20**

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## **INSTRUCTION MANUAL**

APS-90-480-E is a power supply that provides stable DC voltage for demanding electronic devices, including: CCTV cameras, recorders, etc. Thanks to the integration of overvoltage and short-circuit protection, it is especially recommended for operation in monitoring systems that require high power supply reliability. The power supply system is a highly efficient impulse converter that provides isolation between the 230 VAC network and the powered device.

The unit is enclosed in an ABOX series indoor housing providing a convenient solution to the problem of aesthetically fitting monitoring elements and cable termination inside buildings. The casing is made of steel sheet, powder-coated in semi-gloss white.



**General view of the device**

## Technical Specification

|                                |                                                                                                                                                                                                                       |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Output Voltage                 | 48 VDC +/-3%                                                                                                                                                                                                          |
| Output Current                 | 2 A - continuous                                                                                                                                                                                                      |
| Power                          | 96 W - continuous                                                                                                                                                                                                     |
| Efficiency                     | 93% @90 W                                                                                                                                                                                                             |
| Input Voltage                  | 190 ... 260 VAC, 50 Hz                                                                                                                                                                                                |
| Power Supply Input Protection  | Slow Blow Fuse 3,15A<br>Surge Protection                                                                                                                                                                              |
| Power Supply Output Protection | Electronic overload protection at 3 A (automatic recovery after a short circuit)<br>Electronic short-circuit protection (power supply may need to be restarted after a short circuit)<br>Surge protection             |
| Indication                     | LED_AC (yellow) - presence of mains voltage<br>LED1 (green) - presence of output voltage                                                                                                                              |
| Housing Construction           | ABOX-E Enclosure<br>Housing material - 0.8 mm sheet steel<br>Housing powder-coated white<br>Mounted tamper-evident opening<br>System punchings 4.8 mm in 10.8 mm grid<br>Distance to wall 8 mm<br>Mounting holes 6 mm |
| Assembly                       | Wall mounting through 6 mm mounting holes                                                                                                                                                                             |
| Ingress Protection Rating      | IP20                                                                                                                                                                                                                  |
| Operating Temperature          | -25 ... +50°C                                                                                                                                                                                                         |
| Dimensions                     | 250 x 200 x 85 mm                                                                                                                                                                                                     |
| Weight                         | 1,41 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.
- 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.
- Mount the door and then connect the earth wire to the enclosure body.
- After checking system operation, close the enclosure.

## Operation Indication

APS-90-480-OF (module):

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

APS-90-480-E (enclosure):

- LED DC (green) - presence of output voltage

## 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.**

