

ASUC-100-AD0-OF

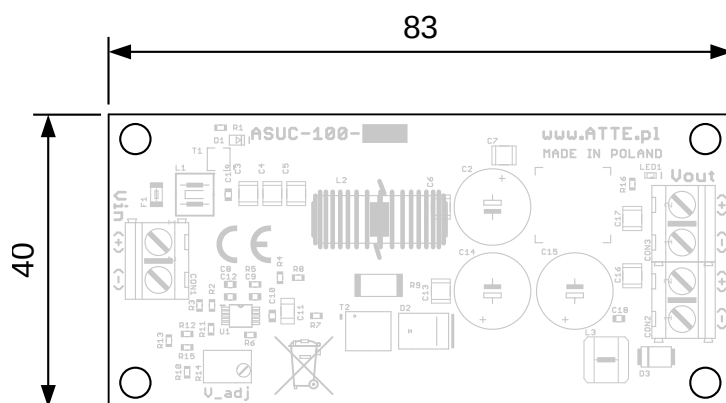
DC / DC step-up converter

12...48V 100W built-in module

INSTRUCTION MANUAL

ASUC-100-AD0-OF is a high-performance, non-isolated DC / DC step-up converter. The converter allows operation over a wide input voltage range and has a precisely adjustable output voltage of 12...48 VDC output voltage. A typical application of the module is to generate a 48VDC PoE supply voltage from a 12VDC or 24VDC buffer supply.

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

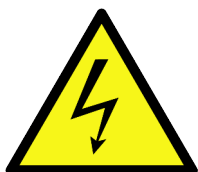
Technical Specification

Power Supply Voltage	10 ... 30 VDC
Output Power	120W @24V, 80W @12V
Output Voltage	12 ... 48 VDC $V_{out} > V_{in}$
Efficiency	93% @ $V_{in}=12V, P_{out}=80W$
Idle Current	27mA @12V
Indication	LED1 - output voltage
Housing Construction	Open frame module
Assembly	Snap-on spacers, mounting holes in 10.8 mm pitch
Operating Temperature	-25 ... +50°C
Dimensions	40 x 83 x 27 mm
Weight	0,036 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 power supply wires to Vin terminals.
- Turn on power supply.
- If necessary adjust output voltage using potentiometer V_{adj}.
- Connect output terminals V_{out} to load.

Operation Indication

- The presence of the output voltage is indicated by a red LED.

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.

