



NOTINS0UK000055-V1.01

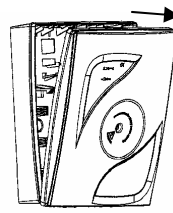
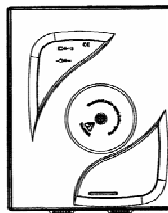
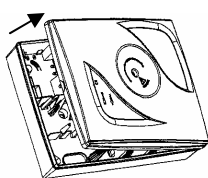
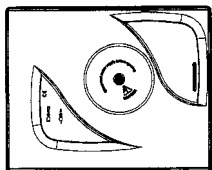
**INSTALLATION GUIDE****AL02 ECO****Uninterruptible power supply 13.7VDC - 2A****Made in France****PROTECTED AGAINST :**

- Overvoltage
- Overcurrent
- Short circuits
- Reverse polarity
- Deep discharge of the battery



Green light for the sector information  
Red light for low battery information

Non-contractual picture

**MOUNTING DIRECTION**

In accordance with our policy of continuous improvement of our products, the information contained in this manual may be subject to change without notice. ATLS can not be held liable for errors contained in this document, for incidental or consequential damages relating to the supply, the quality or the use of this document.

The products of the ALTEC range are designed and made in France by the company ATLS  
ALTEC is a registered trademark of ATLS

---

## INTRODUCTION

Thank you for having purchased the uninterruptible power supply **AL02 ECO** of the trademark **ALTEC**.

With the latest technological innovations, this product offers all the necessary protections against the short circuits, the overvoltage and the overcurrent.

The auto-protected housing against opening and removal can have lead batteries type 12V-7Ah or 12V-2Ah.

Its output voltage is regulated to 13,7V and its output current can reach 2A without battery backup. The charge current of the battery is electronically limited to 250mA. With this circuit, when the battery is charging, the output of the AL02 ECO can still deliver up to 1.75A.

**In case of prolonged power failure, the AL02 ECO has a deep discharge detection that cuts the battery when the voltage across its terminals falls below 9VDC.**

Two outputs type transistor with open collector (ERR OUT) indicate the power failure (Ac in) and the low battery (batt) (below 12V), to complete the green light on the front that indicates the presence of the sector voltage and the red light that indicates a failure of the battery.

---

## SAFETY INSTRUCTIONS

- All work on the AL02 ECO must be performed by qualified or correctly trained for the safety procedures.
- Provide, for the installation of the electrical wiring of the building, a switching device that can be quickly accessible near the AL02 ECO.
- Before any work on the AL02 ECO, disconnect the sector (230VAC).
- Do not block, cover the housing openings and do not insert objects into the slots.
- Do not try to repair the AL02 ECO yourself.
- Avoid any intervention on your AL02 ECO during stormy weather.
- Use only the battery types that are listed in the table of characteristics.
- Take the necessary precautions to avoid any risk of electrostatic discharge during the installation or maintenance of the AL02 ECO.

---

## INSTALLATION



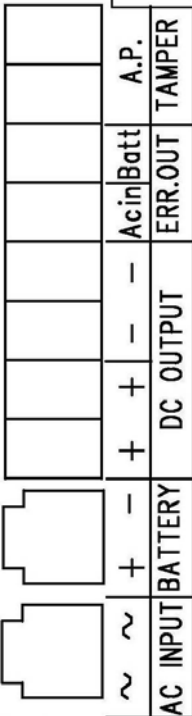
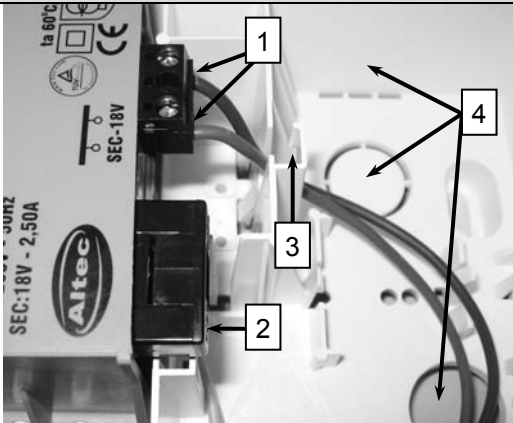
**AL02 ECO is only for an indoor use. It is fixed in a vertical and flat surface larger than its housing, leaving at least 5 cm on each side.**

The tamper for the opening is provided by a slide switch on the card, powered by the cover.

The tamper for the removal is provided by a screw with 60-70mm of length and with 4 to 5mm of diameter (not supplied). Please see on the picture as you have to put the screw. It must be screwed into the wall until its head comes into contact with the electronic circuit without forcing.

It is imperative to do some tests to verify the operation of the power supply and of the tamper for the opening after the installation. It is also recommended to check periodically the correct tightness of the connections and the condition of the internal battery and replace it if necessary.

## WIRING

SELV				
Secondary circuit with safety extra-low voltage				
	A.P. TAMPER		Tamper circuit for opening and removal. Before wiring the tamper, check if the circuit does not exceed 60VDC/0,1A.	
	ERR. OUT	Ac in	The output power failure « ERR. OUT (Acin)» goes from 0V to an open state during a power failure.	
		Batt	The output low battery « ERR. OUT (Batt)» goes from 0V to an open state when the voltage of the battery exceeds the level of the low battery.	
	DC OUTPUT	-	0V of the power supply. If there are several power supplies used in the same system, it is imperative to connect all the 0V together.	
		+	Output of the power supply. To facilitate the connection of several devices, the terminals of the DC OUTPUT are doubled.	
	BATTERY		Connector of battery output wired in factory Recommended batteries : 12V / 2Ah or 12V / 7Ah lead Current of the battery charge limited at 250mA.	
	AC INPUT		Transformer secondary wired in the factory.	
	DANGEROUS VOLTAGE (230VAC – 50 Hz)			
			<b>To connect to the electric power 230VAC, use a cable with 2 voltage connectors of 1.5 mm²</b>	
			<p>1- The phase and the neutral of the sector are plugged directly on the screw terminal that is on the top of the transformer.</p> <p>2- The fuse used is timed <b>315mA<sub>T</sub> Dim. : 5X20 mm.</b></p> <p>3- Put the power cable as shown here</p> <p>4- Passage of the wires</p>	

---

## TECHNICAL FEATURES

---

Voltage power supply : 230VAC 50 Hz (-15% / +10%)

Safety class : Class II

Output voltage: 13.7VDC (+/-0.3VDC)

Charge voltage of the battery : 13.7VDC (+/-0.3VDC)

Charge current of the battery limited to : 0.25A

Output current with internal battery : 1.75A

Output current without internal battery : 2A

Residual ripple of the output : < 250mVAC

Current of the output for the light of the sector voltage : 25mA max.

Current of the output for the light of the low battery : 25mA max

Limit to trigger the low battery output : 12VDC

Limit for the protection against the deep discharge : 9VDC

Max. current for the tamper switch : 0.1A

Type of batteries backup : Lead 12V-7Ah 12V-2Ah

Time for the battery recharge : 24 heures

Environment class : Class II (general indoor)

Degree of protection : IP31 IK07

Operating temperature : -10°C +55°C

Average relative humidity eligible : 75%

Dimensions : 310 X 243 X 98mm

Housing material : ABS anti UV class V0

Weight : 2000 g.

Electromagnetic compatibility: in accordance with the standards NF EN 50130-4 and NF EN 55022

Environment : in accordance with the standard NF EN 50130-5

Electric security : in accordance with the standard EN 60950

---

## WARRANTY

ATLS provides a warranty of 5 years from the date of the manufacture.

The year and the week of the manufacture are indicated on the label of the serial number inside the device.

The warranty does not include the non-functional damage such as scratches, breaks by fall or shock, and neither the degradations caused by abnormal use.

The warranty applies only to PCB's and electronic assemblies and does not include the damages caused by natural or artificial overvoltage.

The warranty applies only if the electronic has not been dismantled, disturbed or transformed.

The warranty is strictly limited to the repair and exchange of parts that we have recognized as defective.

The return costs are always paid by the expeditor.

The immobilization of the device under warranty will not give rise to any compensation for any reason.

The responsibility of A.T.L.S. is limited to the repair of the products and is not extended to the consequences of their use, their implementation or their non-functioning.

---

## BATTERIES DESTRUCTION

The battery backup of the AL02 ECO is not supplied by ATLS. However, do not dispose of batteries in your trash, it is forbidden to cremate, bury them or throw them into landfills. Dispose batteries according to the current laws and regulations. Please contact relevant authorities for further information on the arrangements put in place in your region to collect, to recycle and to dispose of used batteries.

---

## PRODUCTS DESTRUCTION



As required by the WEEE (Waste Electrical and Electronic Equipment), electrical and electronic equipment must be disposed separately from normal household garbage to promote the reuse, recycling and other forms of recovery, as well as limit the amount of waste requiring disposal and thereby reduce the landfill. When disposing of such products, please follow the instructions of local authorities and / or check with your dealer when purchasing a new product.