

PS 124
224
324

CE

Buffer buttery

EN - Instructions and warnings for installation and use

Nice

1 GENERAL SAFETY WARNINGS AND PRECAUTIONS

WORKING IN SAFETY!

- **CAUTION! – For personal safety it is important to observe these instructions.**
- **CAUTION! – Important safety instructions: Keep these instructions in a safe place.**
- **CAUTION! – All product installation, connection, testing, commissioning and maintenance operations must be performed exclusively by a qualified and skilled technician.**

Caution! – Observe the following warnings:

- Never apply modifications to any part of the device. Operations other than as specified can only cause malfunctions. The manufacturer declines all liability for damage caused by makeshift modifications to the product.
- Ensure that the buffer battery cannot come into contact with water or other liquids. If liquids penetrate the device interior, disconnect it immediately from the automation and contact the Nice Assistance Service; use of the device in these conditions constitutes a hazard.
- Never place the device near to sources of heat and never expose to naked flames. This may damage the unit and cause malfunctions.
- **Disconnect the system from the power mains before installing and connecting the battery.**
- Before proceeding with battery installation, check the condition of the product components and suitability of the selected model with reference to the product technical specifications.
- If in any doubt regarding installation, do not proceed and contact the Nice Technical Assistance for clarifications.
- The product packaging material must be disposed of in full observance of current local legislation governing waste disposal.
- In the event of periods of disuse, disconnect it from the automation and store in a dry location to avoid the risk of leaks of harmful substances.

2 PRODUCT DESCRIPTION AND INTENDED USE

This product is a buffer battery designed for use in automations for gates and garage doors using Nice control units. **CAUTION! – Any use other than as described herein is to be considered improper and is strictly prohibited!**

The battery supplies emergency power to an automation in the event of a sudden power failure.

When the battery is charged it can guarantee automation autonomy of approx. 10 manoeuvres. Other characteristics are provided in the chapter "Product Technical Specifications".

The model PS324 can also be installed outside a control unit, using the relative brackets and cable (mod. TNA9 – optional accessory).

3 INSTALLATION AND CONNECTION

Proceed with installation and connection of the battery, with reference to the instruction manual of the automation to which it is to be connected.

Warnings

- **For models PS124 and PS324:** the connectors of the cable connecting the battery to the control unit are not polarised and therefore there is no need to observe polarity. Use the thinner connector for the buffer battery and the wider version for the control unit;
- **For model PS224:** the cable connecting the battery to the control unit is not polarised and therefore can be connected to the connectors on either side. However the connectors are polarised and therefore must be inserted observing the direction indicated on the retainer tab.

The following checks must be performed immediately after connecting the buffer battery to the control unit.

- 1 On the buffer battery:** ensure that led "L2" (fig.1) is lit; this indicates that the battery is supplying power to the system.
On the Control unit: ensure that the leds indicate correct operation of the control unit.
If the result is not positive the buffer battery is probably discharged. At this point, with the automation powered by the mains, perform the operation described in point "2". **Important** – Wait a few hours before repeating the operation check.
- 2** Connect the automation to the electric mains and ensure that buffer battery led "L1" (fig.1) is lit; this indicates that the battery is recharging correctly.
- 3** Run a complete Opening or Closing manoeuvre of the automation to ensure correct operation of the entire system when powered by the mains.
- 4** Disconnect the automation from the mains and ensure that buffer battery led "L2" (fig.1) is lit; then run at least one complete Opening and Closing manoeuvre of the automation to ensure correct operation of the entire system when powered by the buffer battery.

Note

– **Models PS124 and PS324:** the speed of automation manoeuvres with these models of buffer battery, according to the type of automation connected, may be low even if the speed is set to high;

– **Model PS224:** operation of the automation with this model of buffer battery, according to the type of automation connected, may reduce the manoeuvre execution speed with respect to the speed when connected to the power mains;

- 5** At the end of the above checks, reconnect the automation to the power mains.

DISPOSAL OF THE PRODUCT

This product constitutes an integral part of the automation system, therefore it must be disposed of along with it.

As in installation, also at the end of product lifetime, the disassembly and scrapping operations must be performed by qualified personnel.

This product is made up of different types of material, some of which can be recycled while others must be disposed of. Seek information on the recycling and disposal systems envisaged by the local regulations in your area for this product category.

Caution! – some parts of the product may contain pollutant or hazardous substances which, if disposed of into the environment, may cause serious damage to the environment or physical health.

As indicated by the symbol on the left, disposal of this product in domestic waste is strictly prohibited. Separate the waste into categories for disposal, according to the methods envisaged by current legislation in your area, or return the product to the retailer when purchasing a new version.



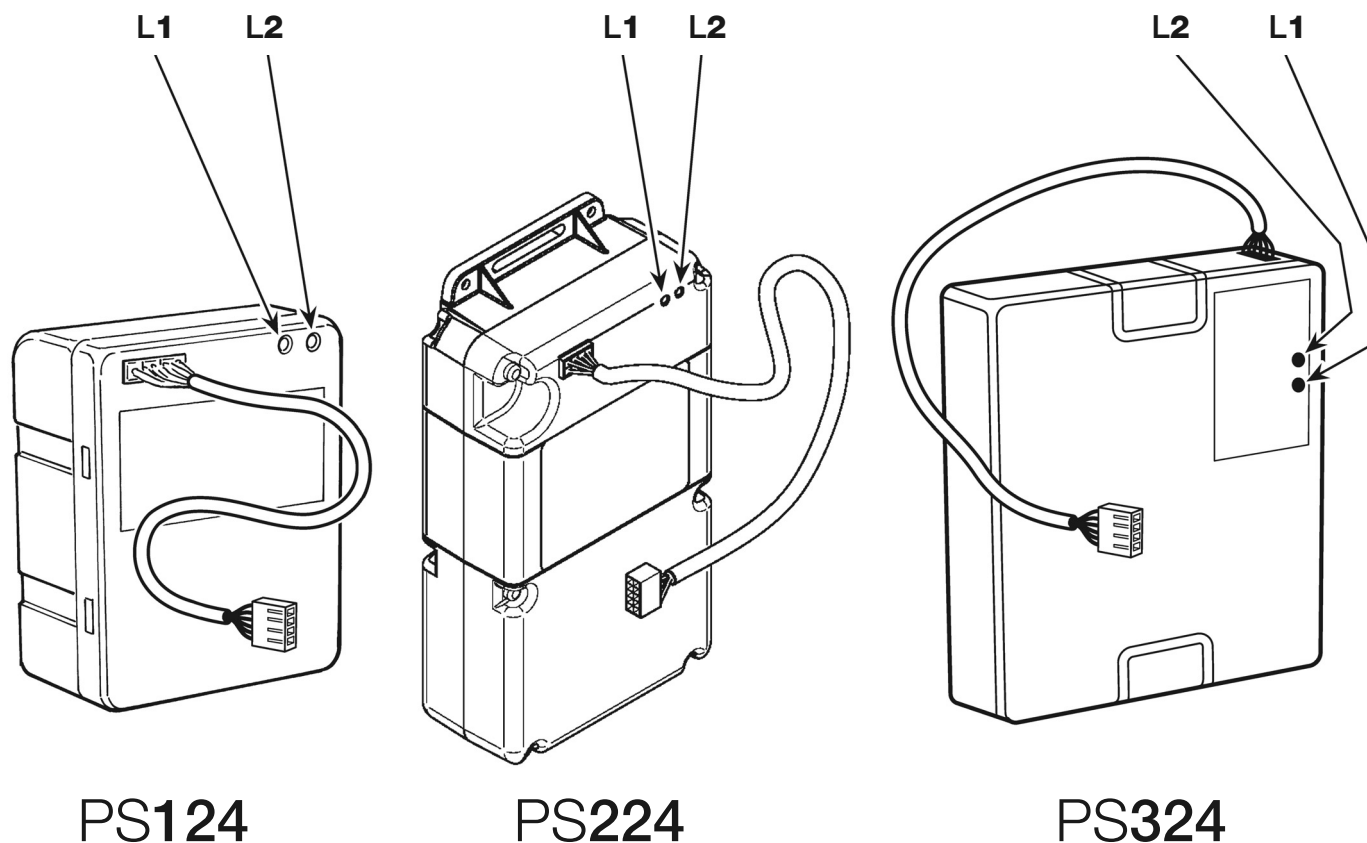
Caution! – Local legislation may envisage serious fines in the event of abusive disposal of this product.

PRODUCT MAINTENANCE

The buffer battery does not require maintenance, but in the event of prolonged disuse, disconnect from the automation and store in a dry location.

Replacement of batteries is required when autonomy is significantly reduced due to age. This operation may only be performed by qualified technical personnel; contact NICE for assistance.

1



PS124

PS224

PS324

EN - TECHNICAL SPECIFICATIONS OF PRODUCT

	PS124	PS224	PS324
Type	Kit of 24 V batteries complete with battery charger for powering automations for automatic gates and doors in the event of a mains power failure		
Technology adopted	Accumulation of electric energy with hermetically sealed lead batteries (maintenance free)		
Charge-discharge voltage	28 V at maximum charge; 16 V at maximum discharge (the battery is disconnected automatically when totally discharged)		
Current delivered	6 A nominal; 8 A for 3 seconds, on start-up	15 A nominal; 20 A for 0.5 seconds, on start-up	8 A nominal; 10 A for 3 seconds, on start-up
Accumulation capacity	1,2 Ah, corresponding to an autonomy of approx. 12 hours with automation on stand-by or 5 minutes with a charge of 4 A corresponding to an average of at least 10 manoeuvres	7,2 Ah, corresponding to an autonomy of approx. 30 hours with automation on stand-by or 12 minutes with a charge of 15 A	2.2 Ah, corresponding to an autonomy of approx. 20 hours with automation on stand-by or 5 minutes with a charge of 8 A corresponding to an average of at least 10 manoeuvres
Complete recharge time	approx. 16 hours	approx. 20 hours	approx. 16 hours
Battery lifetime	estimated at 4 ÷ 6 years; or over 1000 cycles for discharge level of 30%, over 500 cycles for discharge at 50%, over 200 cycles for discharge of 100%		
Ambient operating temperature	from - 20 to + 55°C (battery efficiency is reduced in proportion to a decrease in temperature, at -10°C efficiency is 30%; the battery lifetime decreases on an increase in temperature; at 40°C lifetime may be reduced to 2 years)		
Use in acid, saline or potentially explosive atmospheres	No		
Assembly and connections	Insertion in specific compartments in control units or gearmotors. Connection by means of specific cable supplied		
Protection rating	IP 30 (use only inside control unit or gearmotors or other protected environments)		
Dimensions	104 x 53 x h 143 mm	162 x 78 x h 297 mm	163 x 188 x h 48 mm
Weight	1,450 g	5,500 g	2,400 g

WARNINGS:

- The products PS124 - PS224 - PS324 are produced by Nice S.p.a. (TV) I.
- All technical specifications stated herein refer to an ambient temperature of 20°C (± 5°C).
- Nice S.p.a. reserves the right to apply modifications to products at any time when deemed necessary, maintaining the same intended use and functionality.
- Lead battery performance is influenced by the relative conditions of use: temperature, absorbed current, charge status, and age of the battery can cause significant variations to the original specifications.

CE DECLARATION OF CONFORMITY

Note - The contents of this declaration correspond to declarations in the last revision of the official document deposited at the registered offices of Nice Spa available before this manual was printed. The text herein has been re-edited for editorial purposes.

Number: 280/PS **Revision:** 2

The undersigned, Luigi Paro, in the role of Managing Director, declares under his sole responsibility, that the product:

Manufacturer's Name: NICE s.p.a.
Address: Via Pezza Alta 13, Z.I. Rustignè,
31046 Oderzo (TV) Italy
Type: Buffer battery
Models: PS124, PS224, PS324
Accessories: No accessory

Satisfies the essential requirements of the following Directives, as amended by the directive 93/68/EEC of the European Council of 22 July 1993:

- 2004/108/EC DIRECTIVE 2004/108/EC OF THE EUROPEAN PARLIAMENT AND COUNCIL of 15 December 2004 regarding the approximation of member state legislation relating to electromagnetic compatibility, repealing directive 89/336/EEC.
According to the following standards: EN 61000-6-2:2005, EN 61000-6-3:2007
- 2006/95/EC DIRECTIVE 2006/95/EC OF THE EUROPEAN PARLIAMENT AND COUNCIL of 12 December 2006 regarding the approximation of member state legislation relating to electrical material intended for use within specific voltage limits
According to the following harmonised standards: EN60335-1:1994+A11:1995+A1:1996+A13:1998+A14:1998+A15:2000+A2:2000+A16:2001; EN60335-1:2002+A1:2004+A11:2004+A2:2006+A12:2006

Furthermore, it is hereby declared that the batteries used on PS124 and PS224 are of the VRLA type, "Valve Regulated Lead Acid Batteries" i.e. sealed and valve-regulated, and comply with the specific provision A67 of the IATA/ICAAO Regulations governing hazardous goods.
PS124, PS224 and PS324 are therefore not considered hazardous goods and may be transported without any risk by air, sea and on road.

Oderzo, 28 May 2009

Luigi Paro (Managing Director)



DICHIARAZIONE CE DI CONFORMITÀ

Nota - Il contenuto di questa dichiarazione corrisponde a quanto dichiarato nell'ultima revisione disponibile, prima della stampa di questo manuale, del documento ufficiale depositato presso la sede di Nice Spa. Il presente testo è stato riadattato per motivi editoriali.

Numero: 280/PS **Revisione:** 2

Il sottoscritto Luigi Paro in qualità di Amministratore Delegato, dichiara sotto la propria responsabilità che il prodotto:

Nome produttore: NICE s.p.a.
Indirizzo: Via Pezza Alta 13, Z.I. Rustignè, 31046
Oderzo (TV) Italia
Tipo: Batteria tampone
Modelli: PS124, PS224, PS324
Accessori: Nessun accessorio

Risulta conforme a quanto previsto dalle seguenti direttive comunitarie, così come modificate dalla Direttiva 93/68/CEE del consiglio del 22 Luglio 1993:

- 2004/108/CE DIRETTIVA 2004/108/CE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO del 15 dicembre 2004 concernente il ravvicinamento delle legislazioni degli Stati membri relative alla compatibilità elettromagnetica e che abroga la direttiva 89/336/CEE
Secondo le seguenti norme: EN 61000-6-2:2005, EN 61000-6-3:2007
- 2006/95/CE DIRETTIVA 2006/95/CE DEL PARLAMENTO EUROPEO E DEL CONSIGLIO del 12 dicembre 2006 concernente il ravvicinamento delle legislazioni degli Stati membri relative al materiale elettrico destinato ad essere adoperato entro taluni limiti di tensione
Secondo le seguenti norme armonizzate: EN60335-1:1994+A11:1995+A1:1996+A13:1998+A14:1998+A15:2000+A2:2000+A16:2001; EN60335-1:2002+A1:2004+A11:2004+A2:2006+A12:2006

Inoltre, si dichiara che gli accumulatori utilizzati su PS124 e PS224 sono del tipo VRLA, "Valve Regulated Lead Acid Batteries" cioè ermetici regolati da valvola, e sono conformi alla specifica disposizione A67 del Regolamento IATA/ICAAO per le merci pericolose.
PS124, PS224 e PS324 non sono quindi da considerarsi merce pericolosa e possono essere trasportati senza alcun rischio per via aerea, via mare e su strada.

Oderzo, 28 maggio 2009

Luigi Paro (Amministratore Delegato)



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