

PS 524

CE

Charge unit

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.
- Do not immerse the charge unit or batteries in water or other fluids. 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 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 batteries and charge unit.**
- Before installing the charge unit and batteries, 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 charge unit used as an interface for hooking up VRLA 12V 7Ah (Nice art. B12-B) rechargeable sealed lead acid batteries 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 system 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".

3 INSTALLATION AND CONNECTION

Install and connect the system with reference to the instruction manual of the automation to which it is to be connected.

To connect the PS524 charge unit to the two batteries, refer to **fig. 1**: use the cable with the Faston connectors (make sure the cable colours and +/- polarity of the connections match as indicated (red +; black -)).

To connect the PS524 charge card to the control unit, refer to **fig. 2**: use the provided cable. **Caution! - The cable is not polarised and therefore can be connected to the connectors on either side.**

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

- 1 on the charge unit:** ensure that led "L2" (**fig. 3**) 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 batteries are probably completely drained. 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 electrical mains and ensure that charge unit led "L1" (**fig. 3**) 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 check that charge unit led "L2" (**fig. 3**) is lit; then run at least one complete Opening and Closing manoeuvre of the automation to check that the entire system operates correctly when powered by the batteries alone.
- 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.

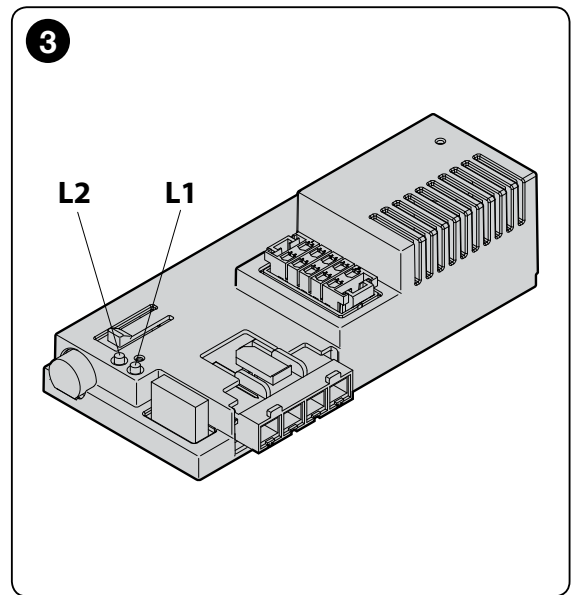
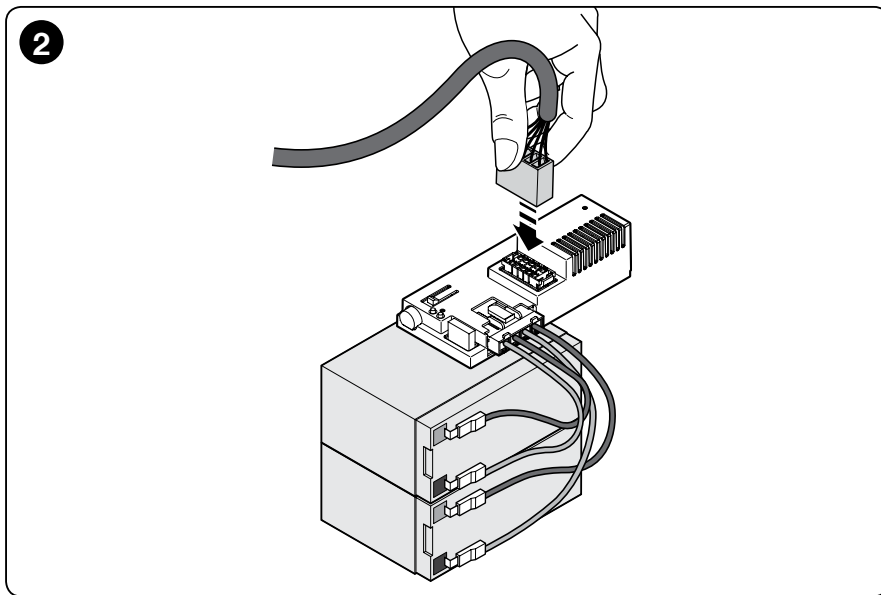
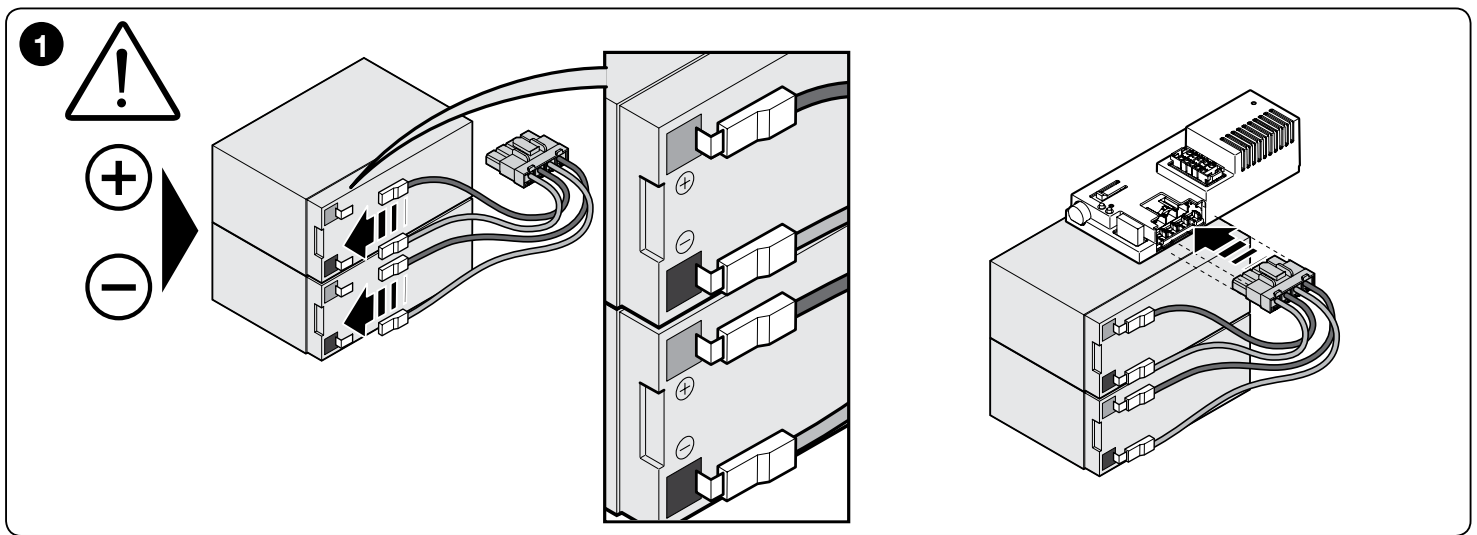
Caution! – Local legislation may envisage serious fines in the event of abusive disposal of this product.



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.



EN

EN – TECHNICAL SPECIFICATIONS OF PRODUCT	
Type	Electronics kit for charging lead acid batteries for powering automations for automatic gates and doors in the event of a mains power failure
Technology adopted	Recharging of maintenance-free sealed lead acid batteries and supply of continuous power to the automation in case of mains power failure
compatible batteries	two rechargeable sealed lead acid batteries (VRLA 12V 7 A/h) such as Ultracell UL 7.2 - 12 - 12v 7.2AH (Nice art. B12-B)
charge/discharge voltage	28V at maximum charge; 16V at maximum discharge (the battery is disconnected automatically when totally drained)
Current output	15A nominal; 30 A for 0.5 seconds at startup
Accumulation capacity	7.2 Ah, corresponding to an autonomy of approx. 30 hours with automation in stand-by or 12 minutes with 15 A load
Complete recharge time	approx. 14 hours
Battery lifetime	estimated 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	- 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 to control unit and batteries with supplied cables
Protection rating	IP 30 (use only inside control unit or gearmotors or other protected environments)
Dimensions	68 x 150 x h 42 mm
Weight	366.5 g

WARNINGS:

- The PS524 unit is produced by Nice S.p.a. (prov. of Treviso – Italy)
- 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.
- The performance of lead acid batteries depends on their conditions of use: the temperature, current draw, charge level and age of the battery can all significantly affect the cited data.

CE DECLARATION OF CONFORMITY

Declaration in accordance with the following Directives: 2006/95/EC (LVD) and 2004/108/EC (EMC)

Note – The content of this declaration corresponds to that specified in the official document deposited at the Nice S.p.A. headquarters and, in particular, to the latest revised edition available prior to the publishing of this manual. The text herein has been re-edited for editorial purposes. A copy of the original declaration can be requested from Nice S.p.A. (prov. of Treviso – Italy)

Declaration number: 488/PS524

Revision: 0

Language: EN

Manufacturer's Name: NICE S.p.A.

Address: Via Pezza Alta 13, 31046 Rustignè di Oderzo (TV) Italy

Type of product: Battery charger

Model / Type: PS524

Accessories: --

The undersigned Mauro Sordini, as Chief Executive Officer, hereby declares under his own responsibility that the product identified above complies with the provisions of the following directives:

- DIRECTIVE 2004/108/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 15 December 2004 on the approximation of the laws of the Member States relating to electromagnetic compatibility and repealing Directive 89/336/EEC, in accordance with following harmonised standards: EN 61000-6-2:2005, EN 61000-6-3:2007

Directive 2006/95/EC of the European Parliament and Council dated 12 December 2006 on the harmonisation of the laws of Member states relating to electrical equipment designed for use within certain voltage limits, according to the following harmonised regulations:

EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006 + A2:2006 + A13:2008+ A14:2010 + A15:2011, EN 62233:2008

Oderzo, 08 October 2013

Mr. Mauro Sordini (Chief Executive Officer)



DICHIARAZIONE CE DI CONFORMITÀ

Dichiarazione in accordo alle Direttive: 2006/95/CE (LVD) e 2004/108/CE (EMC)

Nota - Il contenuto di questa dichiarazione corrisponde a quanto dichiarato nel documento ufficiale depositato presso la sede di Nice S.p.a., e in particolare, alla sua ultima revisione disponibile prima della stampa di questo manuale. Il testo qui presente è stato riadattato per motivi editoriali. Copia della dichiarazione originale può essere richiesta a Nice S.p.a. (TV) I.

Numero dichiarazione: 488/PS524

Revisione: 0

Lingua: IT

Nome produttore: NICE S.p.A.

Indirizzo: Via Pezza Alta N°13, 31046 Rustignè di Oderzo (TV) Italy

Tipo di prodotto: Carica Batterie

Modello / Tipo: PS524

Accessori: --

Il sottoscritto Mauro Sordini in qualità di Chief Executive Officer, dichiara sotto la propria responsabilità che il prodotto sopra indicato risulta conforme alle disposizioni imposte dalle seguenti direttive:

- 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 armonizzate: EN 61000-6-2:2005, EN 61000-6-3:2007
- 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: EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006 + A2:2006 + A13:2008+ A14:2010 + A15:2011, EN 62233:2008

Oderzo, 8 ottobre 2013

Ing. Mauro Sordini (Chief Executive Officer)



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