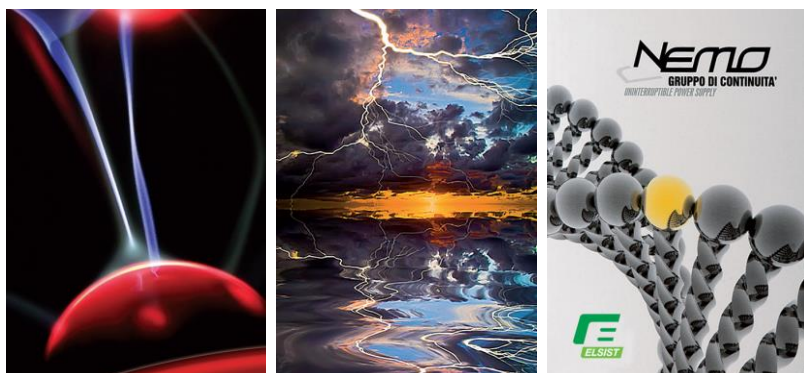


NemoLED

65 • 80 • 120 • 160 • 200
Single-phase Line Interactive series



Uninterruptible Power Supplies

1 – SAFETY INSTRUCTIONS

This section includes important information about Safety. Please, read it carefully before installing and operating the UPS.

- When opening the box, if UPS is damaged or dented don't connect it to electrical network. Please call your reseller for product's replacement.
- Check the electrical rating written on the label on the rear of UPS, for being sure that input voltage rating is correctly set and in compliance with local Mains rating.
- UPS must be connected to an accessible and near plug.
- UPS is designed for supplying equipment such as computer, monitor, cash register, telephone system or similar. To supply any equipment different than above mentioned, please refer to your reseller or to call Naicon Service assistance for information.
- Before cleaning the UPS, disconnect it from the Mains. To clean external surface, please use only a dry cloth. Don't use any liquid cleanser, spray or chemical solvent, which may damage the electrical circuits of the device.
- This UPS operates at dangerous voltages. Don't open the device. The UPS doesn't include circuits or components accessible or repairable by the user. ONLY authorized personnel may access to the unit.
- Connection to a plug without Ground connection may cause electrical shock, and is not in compliance with Law regulation.
- Don't connect UPS input to its own output.
- Don't connect a multiple plug system or an overvoltage suppression system to the UPS.
- In case of emergency, immediately push ON/OFF switch, disconnect the power cable from the wall plug to correctly shutdown the UPS.
- Don't cover device's air inlet, avoid direct exposure to direct sunlight or install it close to heating sources, in order to avoid any overheating of the unit.
- This equipment is intended to be used in interior. Avoid installing the UPS in locations where water or excessive moisture are present.
- Do not allow liquids or foreign bodies to penetrate the UPS. Do not place any drinks or any other liquid container on top or near the unit.
- Battery maintenance must be carried out by experienced personnel.
- Replace the batteries with the same type.
- The voltage of internal battery is set at 12/24Vcc, battery is sealed and contains acid. Do not open or damage the battery. Released electrolyte is harmful to the skin and to the eyes. It can be toxic, too.
- Handling batteries may result in electric shock and short circuit. Observe the following precautions when working with batteries:
 - 1) Don't wear metallic objects.
 - 2) Use tools with isolated handles.
 - 3) Wear gloves and boots with rubber sole.
 - 4) Do not place tools or metal objects on the batteries.
 - 5) Disconnect the UPS before battery replacement.
- Do not throw the batteries in the fire as they may explode.
- This UPS does not have to work either reversed or lying down.
- Batteries are already connected.
- Make sure that the sum of the leakage currents of the UPS and the loads connected to it does not exceed 3.5 mA before connecting the equipment.
- Be careful when disconnecting the equipment, there may be still residual voltages on the output sockets due to the battery voltage. Battery cables must be disconnected if you need to access the UPS.
- UPS is equipped with sealed lead-acid batteries. They are harmful if throw in the environment, so they must be disposed of in compliance with the relevant Community directives. To dispose of the UPS, you must contact the appropriate authorized sites in your area, due to the electronic components and the plastic material of which the unit is made up.

Made in P.R.C



WARNING

IN COMPLIANCE WITH THIS INSTRUCTIONS, ANY NON AUTHORIZED ASSISTANCE TO THE UPS LEAD TO CANCELLATION OF THE WARRANTY

2 - PRODUCT INTRODUCTION

Thanks for having purchased an ups of NEMOLED series. The ups is designed to give you maximum protection and is an easy to use device. This UPS is specially designed for PCs or similar equipment. Thanks to its light weight and compact design, it fits perfectly into small working environments. NEMOLED series is equipped with the AVR function to stabilize the input voltage. It is also integrated with the DC start function (Cold start).

Main characteristics:

- **Full power protection.**
Electrical noise suppression, voltage and overvoltage peak suppression, autonomy, are common requirements to many UPS types. This UPS provides a wider voltage range capability, in addition to the aforementioned characteristics. Within this wide voltage range, the load is supplied without any support from the battery. This feature not only protects your computer, but also improve and increases battery lifetime.
- **Cold start function (DC Start).**
NEMOLED models are equipped with cold start function, which means that even if the power supply is unplugged, the UPS can be activated simply by pushing the ON / OFF switch and will operated supplied by the battery.
- **Autorestart.**
Upon returning the Mains, the UPS will restart automatically.
- **Overload protection.**
The internal microprocessor controls the load status in any operating conditions. In the event of overload or short circuit, your UPS will beep or will automatically turn off to avoid undesired damage to the load.
- **All controls are performed and guaranteed by a high reliability microprocessor.**
- **“Green Power” function for energy saving.**
- **Light weight and compact dimensions.**

3 - INSTALLATION AND OPERATION INSTRUCTIONS

WARNING: The unit is shipped from the factory with a fully charged internal battery, however, it could be, discharged during transportation, so it has to be recharged before use. To do this, connect the unit to an appropriate power outlet and let the battery recharge for at least 6 hours without any load connected.

Install the UPS according to the following items:

- Install the UPS in an environment that is free of excessive dust, corrosive gas and conductive contaminants and where there is adequate air circulation around the unit.
- To place the UPS in ideal location that allow you to check visual alarms and sound indicators.
- To place the UPS at least 20cm far from any monitor or screen in order to avoid interference.
- Connect the power cord to an earthed power outlet.
- Connect your computer and its devices to the UPS output outlet.
- Don't connect laser printers to UPS output.
- To turn on the UPS press the start button located on the UPS front panel and wait for the test completion. From now on your computer and its connected devices are protected by the UPS.
- Before turning off your UPS, make sure that your computer or any other electronic equipment has been turned off completely.
- To turn off the UPS, press the button on front panel.

IMPORTANT: The total power consumption of the load must not exceed the maximum power rating of the UPS, specified on UPS label.

4 – UPS TEST

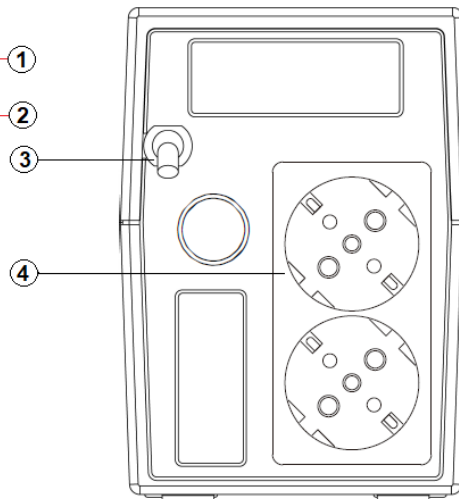
If you want to simulate a network failure, then proceed by unplugging the UPS power cord from the mains socket. Don't turn off the UPS.

"Batt. Mode" yellow LED will light on and the buzzer will beep. To resume normal operation with electrical network, simply reconnect the UPS power cord to the mains socket. After a certain delay (intentional delay in order to protect the load from surges that may occur when re-connecting the power cord or when the voltage is back after a power outage), the "Batt. Mode " yellow LED will be off, the buzzer will stop beeping and the "AC Mode " green LED will light on.

5 – LAYOUT AND DESCRIPTION



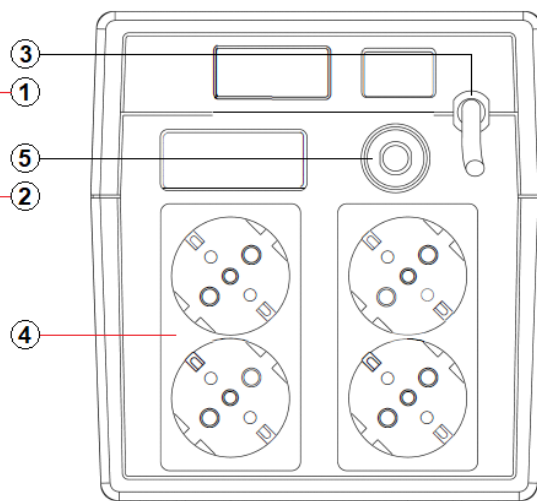
Front view NEMOLED 65-80-120



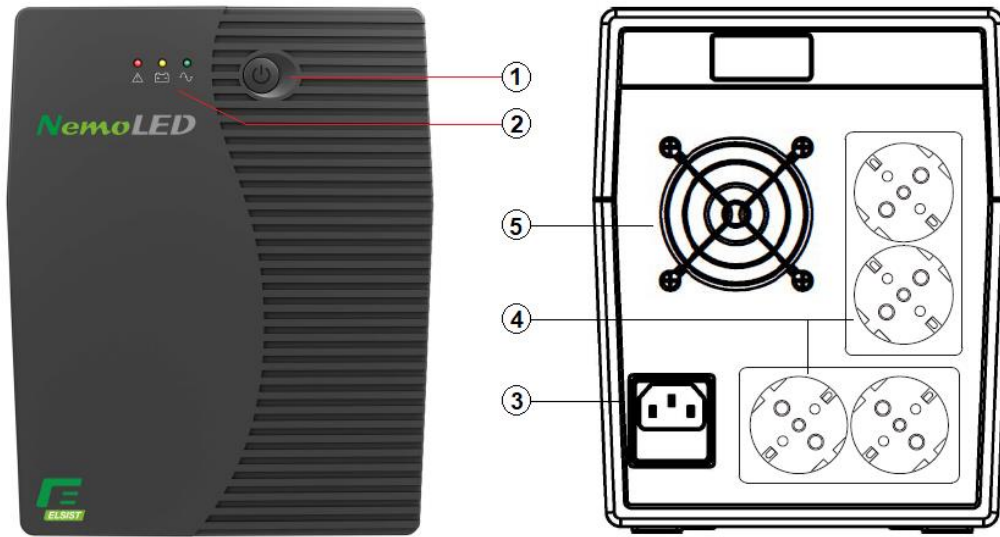
Rear view NEMOLED 65-80-120



Front view NEMOLED 160



Rear view NEMOLED 160

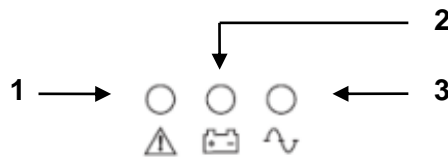


Front view NEMOLED 200

Rear view NEMOLED 200

- 1) Power On/Off
- 2) LED Panel
- 3) Input
- 4) Output sockets
- 5) Fuse (NEMOLED160) – Fan (NEMOLED200)

6 – LED PANEL



1. LED Red: Failure
2. LED Yellow: Battery mode
3. LED Green: Normal mode

7 – TROUBLESHOOTING

ITEM	CAUSE	RISOLUTION
All LEDs are Off	• Discharged Battery	• Recharge the battery for at least 8hr
	• Battery failed	• Replace the battery with the same type of product
	• On/Off button is not switched On	• Push ON/OFF button on front panel
Continuous beep when Mains is present	Overload on UPS	Verify that load doesn't exceed the rating of the UPS.
Battery autonomy time in back-up mode is short	• Overload on UPS	• Partially remove the load
	• Battery voltage is very low	• Recharge the battery for at least 8hr
	• Battery failure due to high ambient temperature or improper operation of the battery	• Replace the battery with the same type of product
Battery mode yellow LED is On but Mains is present	• Power cord is not connected	• Check that power cord is correctly plugged in.
Battery is not recharged	• Input mains not available	

NOTE: If there are other conditions not listed, then contact our service center.

8 – ACCESSORIES

Within the package are the following accessories, please check their presence.

MODELS	Instruction manual
NEMOLED65 NEMOLED80 NEMOLED120 NEMOLED160 NEMOLED200	•

9 – TECHNICAL CHARACTERISTICS

MODEL	NEMOLED 65	NEMOLED 80	NEMOLED 120	NEMOLED 160	NEMOLED 200
INPUT					
Input Voltage	220-230-240Vac				
Input voltage range	162-290Vac				
Frequency	50/60Hz (auto selection)				
OUTPUT					
Output Voltage	230Vca				
Wave type	Simulated sine wave				
Output voltage range	± 10%				
Frequency	50/60Hz (following input frequency)				
Power (VA/W)	650 / 240	800 / 360	1200 / 480	1600 / 600	2000 / 900
Switching time	2-6 mS tpc, 10ms max				
Outlet Schuko	2			4	
NOISE FILTERING					
	Yes				
BATTERY					
Autonomy time typ.	10 min				
Battery Voltage	1x 12V/4,5Ah	1x 12V/7Ah	1x 12V/9Ah	2x 12V/7Ah	2x 12V/9Ah
Type	Maintenance-free, sealed lead-acid				
Recharge time	6-8 hours at 90% after a deep discharge				
PROTECTION					
Overvoltage/Undervoltage	Switch to "Battery Mode"				
Overload/Shortcircuit	Electronic limit (both on "Mains mode" and on "Battery Mode")				
AUDIBLE ALARM					
Battery mode	1 time every 10 sec				
Battery low	1 time per sec				
Overload	1 time every 0,5 sec				
Fault	continuously				
MECHANICAL					
Dimensions (LxPxH) mm	101x282x142			149x350x162	158x380x198
Weight (Kg)	3,5	3,5	4,3	7,5	10
ENVIRONMENT					
Ambient	Temperature 0-40°C ,Humidity 0-90% without condensing, altitude max 3000 mt.				
Audible Noise	< 40dbA (at 1mt.)				
STANDARD					
IEC/EN62040-1 IEC/EN62040-2 IEC/EN62040-3 IEC/EN60950-1					

10 – WARRANTY

Dear Customer,

Thank you for purchasing a NAICON product. We hope that you be satisfied.

If the product fails in warranty period, please contact your dealer or call +39 02 950031 or go to www.naicon.com/elsist. Before contacting your dealer or authorized service network, we recommend that you read the operating and maintenance manual carefully.

With this warranty, NAICON warrants the product to be free from defective in materials or workmanship for 2 years, as of the original delivery date.

If there are material or manufacturing defects during the warranty period, ELSIST affiliates, Authorized Service Centers or authorized resellers located in the UE region will repair or (at ELSIST discretion) replace the defective product or components under the terms and conditions below, without any charge for labor or spare parts costs. ELSIST reserves the right (in its sole discretion) to replace the components of defective products or low cost products with assembled parts or new or refurbished products.

Conditions.

1. This warranty will be valid only if the defective product is returned together with the sales invoice.

ELSIST reserves the right to refuse warranty service in the absence of such documents or if the information contained therein is incomplete or illegible.

2. This warranty does not cover the costs and / or any damages and / or defects resulting from any modifications or adjustments made to the product, without prior written permission from ELSIST, in order to adapt the product to local technical or safety standards in countries other than those for which the product was originally designed and manufactured.
3. This warranty will be void if the model or serial number indicated on the product has been modified, deleted, removed or otherwise illegible.
4. Are excluded from the warranty:
 - Periodic maintenance and repair or replacement of parts subject to normal wear and tear.
 - Any modification or modification to the product, without prior written permission from ELSIST to enhance performance than those described in the User and Maintenance Manual
 - All costs of technical staff support and any transport from the customer's address to Assistance Center and vice versa as well as all the risks involved.
 - Damages due to:
 - a) Improper use, including but not limited to: (a) the use of the product for any purpose other than the intended use or failure to observe the ELSIST instructions for correct use and maintenance of the product, (b) installation or use of the product not complying with the Technical or Safety standards in the country in which it is used.
 - b) Repairs by unauthorized personnel or by the Customer himself.
 - c) Accidental events, lightning, floods, fires, incorrect ventilation or other causes not attributable to ELSIST.
 - d) Defects of the equipment or equipment to which the product was connected.
5. This warranty does not affect the buyer's rights established by applicable national laws nor the Customer's rights to the reseller arising out of the sales contract.

Unless authorized by the manufacturer, reproduction of any part of this manual is prohibited. Our equipment, built with the utmost care and with selected components, is controlled by ELSIST Quality Services. However, if you notice any anomalies, please inform us by calling +39 02-950031 specifying serial number and model of the device, which are printed on the identification plate at the rear side of the UPS. ELSIST Assistance Service is also available to collect requests, comments, suggestions, if any.

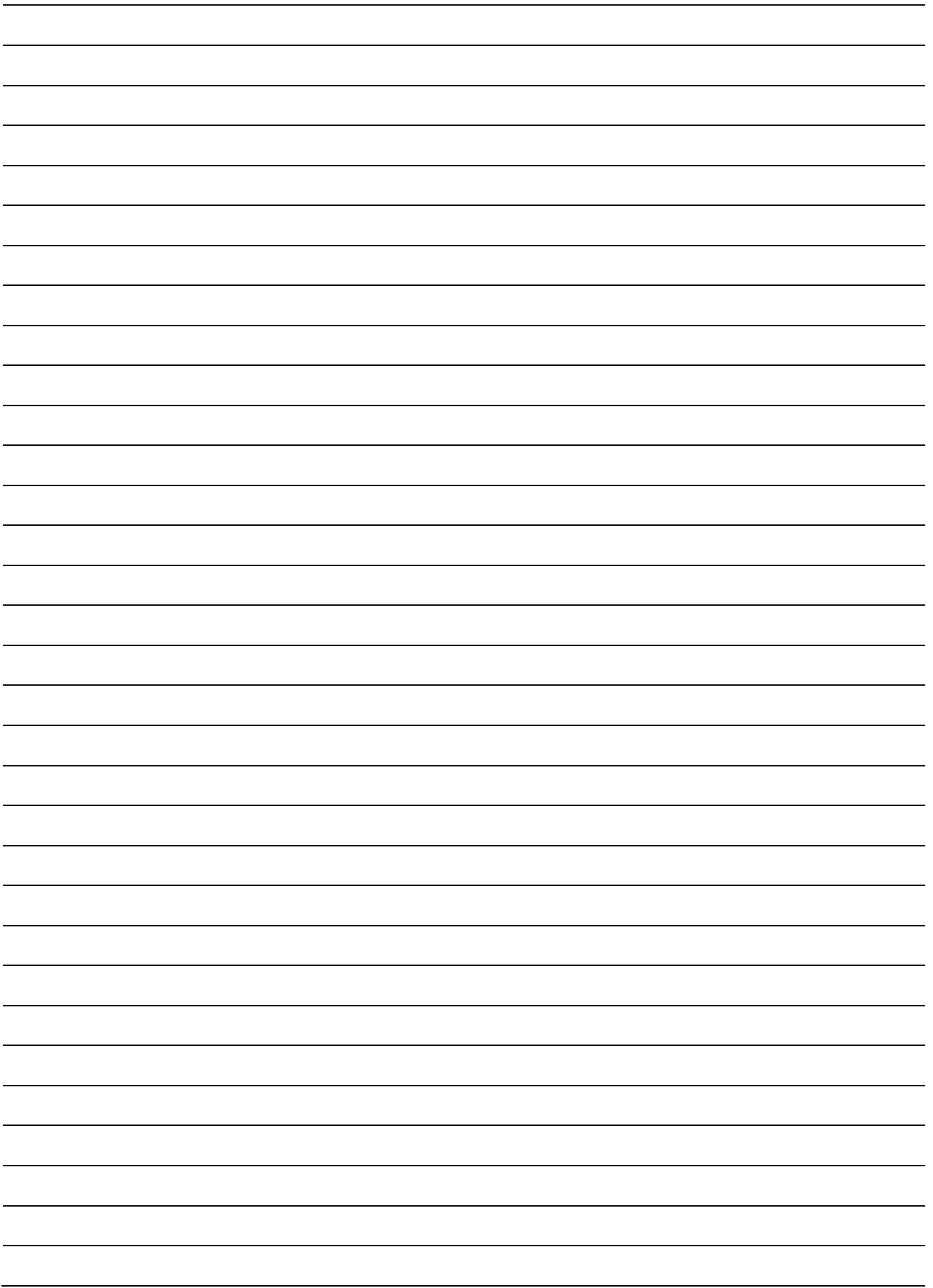
In case of failure:

Contact our Customer Service Center at +39 02 95 0031, and verify the UPS malfunction.

If the products returned to NAICON were OPERATING or if they were delivered without our permission or for out-of-warranty products, they will be returned to the customer by charging a cost that will depend on the country where will be shipped.

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