

User Manual • Compact Series

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Interactive-technology Uninterruptible Power Supply (UPS) in a 19" rack format. The PH 9202 protects and backs up the connected equipment against mains outages and disturbances through its 8 Schuko sockets.

800 VA
480 W**19" rack**
2U**8 sockets**
Schuko**USB-HID**
+ EPO

Read this manual carefully before installing the equipment and keep it for future reference. Follow all the warnings and instructions given here. Do not operate the UPS without having first read all the safety information.

1. Important safety information

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Caution — Risk of electric shock. A UPS is a generator of electrical energy: voltage may be present at the output sockets **even when the equipment is not connected to the mains**, since it has an internal battery. Installation, maintenance and repair must be carried out exclusively by qualified personnel.

1.1. Transport and preparation

- Always transport the UPS in its original packaging to protect it from knocks and impacts.
- Condensation may form when the equipment is moved from a cold environment to a warm one. Allow it to acclimatise for at least two hours and make sure it is completely dry before installing it.
- Do not install the UPS near water or in damp environments, or expose it to direct sunlight or heat sources.

1.2. Installation

- Connect the UPS only to an earthed socket-outlet that is easily accessible and close to the equipment.
- Do not connect loads to the output that could overload the equipment, such as laser printers, paper shredders or other high-consumption devices or those with high current spikes.
- Route the cables so that they cannot be stepped on or cause tripping. Avoid extension leads.
- The UPS can be installed in a 19" rack (occupying 2U) or fixed under a table using the supplied brackets.

1.3. Operation

- During battery backup, the equipment operates with the neutral isolated from earth (IT system), which adds an extra layer of safety. Take the usual precautions against direct and indirect contact.
- To switch the UPS off, press and hold the ON/OFF switch. For an immediate output cut-off from a remote location, the EPO function can be used (see section 6).
- Prevent liquids or foreign objects from entering the unit.

1.4. Batteries and repair

- The battery is not isolated from the input circuit: hazardous voltages may exist between its terminals and earth. Before any intervention, always confirm the absence of voltage.
- Replace the battery with one of the **same quantity and type**. Only qualified personnel should handle it; remove metal objects and use tools with insulated handles.
- Do not dispose of the battery in household waste or burn it: it could explode. The electrolyte is toxic and harms skin and eyes. Always hand it in at an authorised recycling point.
- Do not dismantle the UPS under any circumstances.

Note: before installation, inspect the unit and check that the contents of the packaging are undamaged. Keep the original packaging in a safe place for at least one year.

2. Presentation

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The PHASAK Compact UPS combines design and functionality in a compact format suitable for 19" racks. Equipped with 800 VA of power and 8 Schuko sockets (6 front and 2 rear), it provides protection and backup for all kinds of installations. It is fully compatible with APFC loads and can be monitored through the USB-HID port and the PowerMaster management software.

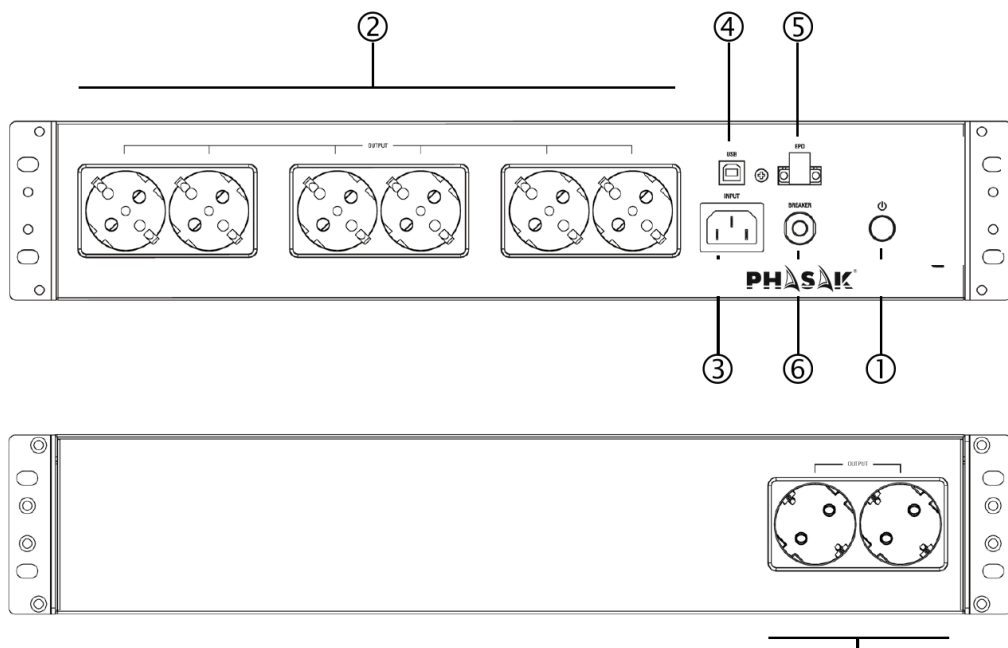
Under normal conditions, the UPS output follows the mains. A real-time detection circuit monitors the mains and, on an outage or anomaly, transfers to battery in approximately 14 ms, keeping the loads powered with a modified sine wave for the available runtime.

2.1. Main features

- Interactive technology, 800 VA in 2U rack format.
- 8 Schuko sockets (6 front + 2 rear) with backup and surge protection.
- Compatibility with APFC-type loads.
- Modified sine waveform in battery mode.
- USB interface with HID protocol and EPO port (emergency shutdown).
- Automatic input frequency detection 50 / 60 Hz.
- Cold start, automatic restart and recharge after a mains failure.
- Overload protection via an accessible resettable circuit breaker and battery protection via an internal fuse.
- Fanless technology (passive ventilation).
- PowerMaster management software for Windows, Linux and Mac.

3. Views of the equipment

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Front (top) and rear (bottom) view of the equipment.

No.	Item
1	Multi-function ON/OFF switch with status LED indicator and alarm mute.

No.	Item
2	Schuko output sockets with backup and surge protection (6 front + 2 rear).
3	IEC input socket (mains connection via the supplied cable).
4	USB-HID communication port.
5	EPO port (emergency shutdown, optional).
6	Resettable input circuit breaker (overload protection).

4. Installation and start-up

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Make all connections with the equipment switched off and no mains present. Check that the sum of the connected loads does not exceed the UPS power; for optimum performance, keep the load below 80 % of the rated capacity.

Procedure

- **1. Connect the loads.** Plug the PC, monitor and sensitive equipment into the output sockets. Do not connect laser printers, paper shredders or other high-consumption devices.
- **2. Connect the input.** Connect the supplied cable between the UPS IEC socket and an earthed mains socket-outlet. This line must not supply high-demand machines (air conditioning, refrigerator, etc.). Avoid extension leads.
- **3. Switch on the UPS.** Press and hold the ON/OFF switch for 2 seconds; the status LED will light up. The unit supports cold start (with no mains present), although this is not advisable if the outage extends beyond the available runtime.
- **4. End of runtime.** If the battery is exhausted during an outage, the UPS blocks and stops powering the output. When the mains returns, it starts up automatically.
- **5. Storage.** If you are going to store the equipment, do so with the battery fully charged, protected from dust and impacts, and recharge it periodically (see section 8).

Alarm mute: the audible alarm can be enabled or muted by pressing the power switch twice in succession, both in normal operation and on battery. By default, the alarm is enabled.

5. Optical and acoustic indications

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LED / alarm	Condition	Recommended action
LED steady · no alarm	Normal operation on mains.	—
LED flashing · beep every 30 s	Mains failure: the UPS powers the loads from the battery.	Save your work; backup is limited.
LED flashing · beep every 2 s	Mains failure: the battery is about to run out.	Shut down the equipment immediately.
LED flashing · beep every 0.5 s	Moderate overload: the load exceeds the rated capacity.	Disconnect at least one device.
LED steady · continuous beep	Excessive overload, or general fault (short circuit in the load or internal failure).	Disconnect loads, switch the UPS off (ON/OFF >2 s) and restart it. If it persists, contact the support service.

6. EPO function (emergency power off)

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The UPS has two terminals for installing an external emergency power-off (EPO) button. From the factory, the circuit is supplied **normally closed (NC)**: the UPS will cut off the output as soon as the circuit is opened, either by removing the jumper connector from its socket or by operating an NC button installed by the user between the terminals.

To restore normal operation, reinsert the jumper connector into its receptacle or release the EPO button. The equipment will be operational again.

7. Communications and software

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Connect the supplied USB cable between the UPS USB-HID port and the computer. With the **PowerMaster** software installed you can monitor the UPS status remotely and schedule an automatic safe shutdown of the system in the event of a mains failure, without needing to attend the equipment in person.

Download the free PowerMaster software for your operating system (Windows, Linux or Mac) from:

- <https://phasak.com/software-de-gestion-powermaster/>

8. Troubleshooting

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If the UPS does not work correctly, check the table below before contacting the support service.

Symptom	Probable cause	Solution
The sockets stop supplying power and the circuit-breaker button protrudes from the side.	The circuit breaker has tripped due to an overload or short circuit.	Switch off the UPS and disconnect at least one load. Reset the breaker by pressing the red button and switch the unit back on.
The UPS does not reach the expected runtime.	The battery is not fully charged.	Recharge the battery by leaving the UPS plugged into the mains.
	The battery is deteriorated.	Contact the support service.
The UPS does not switch on.	Protection against rapid on/off switching.	Switch off the UPS, wait 10 seconds and switch it on again.
	Deteriorated battery or mechanical fault in the ON/OFF switch.	Contact the support service.

9. Maintenance and storage

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This product requires no preventive maintenance. The battery is a non-reusable part with a limited service life; when it needs replacing, contact the support service and always hand the used battery in at an authorised recycling point.

If you are going to store the equipment for a long period, keep it with the battery fully charged, in a cool, dry place, and protected from dust and impacts. Recharge the battery periodically to preserve its service life; the recharge interval depends on the ambient storage temperature.

10. Technical specifications

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Reference	PH 9202
Power	800 VA / 480 W
Series / format	Compact · 19" rack (2U)
Technology	Interactive
Phase	Single phase
Power factor	0.60
Input	
Nominal voltage	220–240 Vac
Voltage range	180–270 Vac
Frequency	50 / 60 Hz (auto-detection)
Input cable	3 conductors (line + neutral + earth) with plug
Output	
Nominal voltage (battery)	230 Vac
Voltage accuracy	± 7 %
Frequency	50 / 60 Hz ± 1 %
Waveform (battery)	Modified sine wave
Transfer time	14 ms max.
APFC compatibility	Yes
Electronic protection	Power overload and short circuit
Overload in mains mode	> 100 % alarm only · > 130 % output cut-off
Overload in battery mode	> 110 % cut-off after 10 s · > 120 % immediate cut-off
Output sockets	8 × Schuko (6 front + 2 rear) with surge protection
Efficiency	
Mains mode / battery mode	> 98 % / > 70 %
Battery	
Voltage / type	12 V DC · sealed lead-calcium AGM, maintenance-free
Quantity / capacity	1 × 9 Ah
Charge time (90 %)	8 h
Battery test	Manual
Indication and communication	
Light indication	Status LED (on the switch)

Reference	PH 9202
Audible alarm	Battery (every 30 s) · low battery (every 0.5 s) · overload / fault (continuous)
Communication	USB-HID: Yes · EPO: Yes · RS-232 / SNMP / RJ45: No
Software	PowerMaster (Windows, Linux, Mac)
Physical and environmental	
Dimensions (W × H × D)	438 × 86 × 153 mm
Weight	5.0 kg
Protection rating	IP20
Ventilation	Passive (fanless)
Colour	Black
Operating temperature	0 – 40 °C
Relative humidity	0 – 90 % non-condensing

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