



USER MANUAL

Battery Bank PH 9285

Runtime-expansion system for PHASAK PH 9283 + PH 9284 UPS. Designed to house 64 batteries of 12 V / 9 Ah (not included).

PRODUCT SUMMARY

Reference	PH 9285
EAN	5605922011964
Compatible with	PHASAK PH 9283 + PH 9284 UPS
Capacity	64 batteries of 12 V / 9 Ah · batteries not included (enclosure only)
Configuration	2 sections of 32 batteries · groups of 16 in series
Charging	13.65 × 16 V per section · 4 A current
Operating environment	0–40 °C · 5–95 % RH, non-condensing

1 Important Safety Information

Read this manual carefully and observe all warnings and instructions before installing and operating the unit. Keep it for future reference. Do not operate the equipment until you have read all the safety information.

Warranty and servicing. Do not attempt to repair the unit yourself: any unauthorised handling voids the warranty. In the event of a fault, contact your PHASAK distributor.

Installation and environment

- Keep all ventilation grilles unobstructed and place no objects on top of the battery bank; leave at least **20 cm** from the wall to prevent overheating.
- Install the unit within its specified range: **0–40 °C** and **30–90 % humidity, non-condensing**.
- Do not expose it to direct sunlight. Battery failure caused by overheating voids the warranty.
- It is not designed for dusty, corrosive or salty environments, nor for outdoor use.

- Ingress of water or other liquids, or the insertion of foreign objects inside the unit, voids the warranty and may damage the equipment.

Use and charge maintenance

- The batteries self-discharge during periods of inactivity. If the unit is not in use, **recharge it every 2–3 months**; otherwise the warranty will be void. Under normal operation, the system keeps the batteries charged automatically.
- Battery servicing must be carried out or supervised by qualified personnel familiar with batteries and the required precautions.
- When replacing the batteries, **always replace them all at once**, with the same quantity, type and capacity.

Electrical precautions

- **Do not dispose of the batteries in fire:** risk of explosion.
- **Do not open or damage the batteries.** The electrolyte is toxic and harmful to skin and eyes.
- **Risk of electric shock.** Hazardous voltage may exist between the battery terminals and earth. Check before touching with bare hands.
- **Risk of high short-circuit current.** When working on batteries: remove watches, rings or other metal objects; use tools with insulated handles; wear rubber gloves and boots; do not rest tools or metal parts on the batteries; and disconnect the charging source before connecting or disconnecting the terminals.
- Do not connect or disconnect the battery connector while the UPS is operating in battery (discharge) mode.

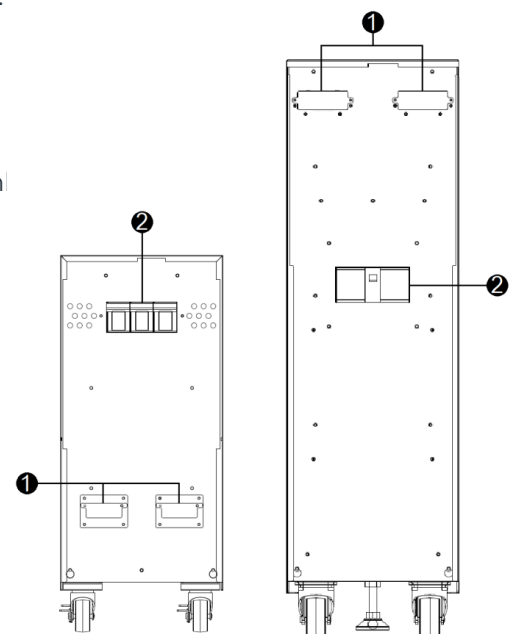
2 Product Overview and Installation

Before installation, inspect the unit and make sure that no component inside the packaging is damaged. Keep the original packaging in a safe place for future use.

2.1 · Rear panel

The rear panel includes the two connection elements of the bank:

- ① **DC connector:** connects to the UPS or to a second battery bank
- ② **DC breaker:** protects the battery against over-currents.



2.2 · Unpacking and inspection

Caution: the battery bank is very heavy. Take extra care when unpacking and lifting the unit to avoid injury.

Check that the packaging contains:

- Battery bank unit
- Quick guide
- 1 × battery connection cable

2.3 · Choosing the installation site

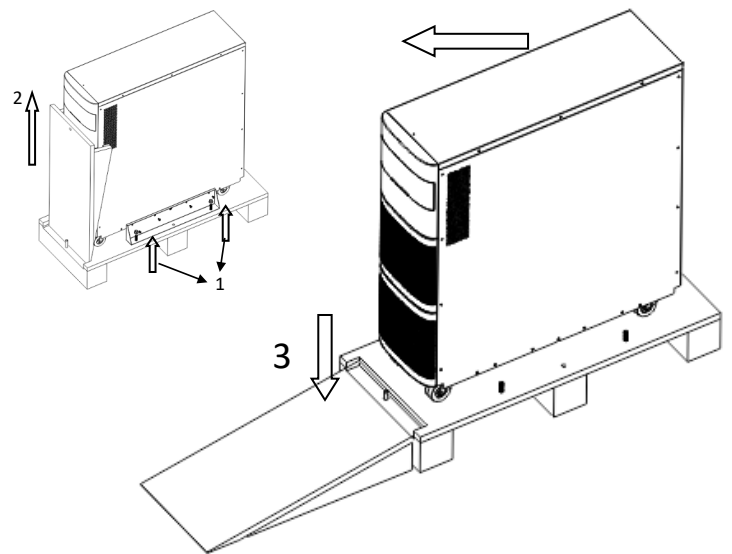
Choose a suitable location to reduce the risk of damage and extend battery life:

- Leave at least **20 cm** of clearance behind the rear panel, from the wall or other obstructions.
- Do not block the airflow to the ventilation grilles.
- Make sure the ambient conditions meet the specifications, avoiding overheating and excessive moisture.
- Do not install the unit in dusty or corrosive environments, or near flammable materials.
- Indoor use only.

2.4 · Removing the pallet

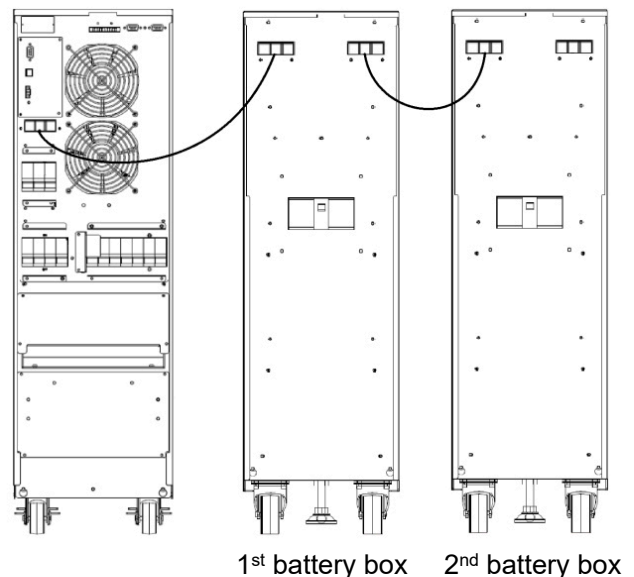
For the 64-battery model:

- Remove the four base screws.
- Place the board/ramp in front of the unit.
- Carefully lower the unit down the ramp.



2.5 · Connecting to the UPS and additional banks

Connect the bank to the UPS using the supplied cable. If you need more runtime, you can daisy-chain a second battery bank (first bank → second bank), following the connection diagram.



1st battery box

2nd battery box

3 Charger and Battery Configuration

The PH 9285 houses **64 batteries of 12 V / 9 Ah**, arranged in **2 sections of 32 batteries**. Each section is split into two groups of **16 batteries connected in series**. The charging voltage of each section is **13.65 × 16 V** and the charging current is set to **4 A**.

Parameter	Specification
Charging configuration	±(16+16) per section — 1 or 2 sections; ×2 with two banks in parallel
Max. output current	4 A ± 10 % (max.)
Output voltage	(13.65 × 16) V ± 1 %
Operating humidity	5–95 % RH (non-condensing)
Operating temperature	0–40 °C

4 Storage and Maintenance

The unit contains no user-serviceable parts. When the battery service life (**3–5 years at 25 °C** ambient temperature) is exceeded, the batteries must be replaced; in that case, contact your distributor.

Recycling. Deliver spent batteries to an authorised recycling facility, or return them to your distributor using the packaging of the replacement batteries.

Storage

Before storing the unit, charge it for 4 hours. Store it covered and upright, in a cool, dry place. During storage, recharge the batteries according to the following table:

Storage temperature	Recharge frequency	Charging duration
-25 °C to 40 °C	Every 3 months	1–2 hours
40 °C to 45 °C	Every 2 months	1–2 hours

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