

First use

After a positive test result making sure the PowerBOX25 works properly the PowerBOX25 can be used.

Maintenance

- Read all Safety information in this manual before proceeding
- Regular cleaning prevents degeneration
- Remove all spill of any material immediately
- Prevent using aggressive or corrosive cleaning detergent
- Do not use high pressure water jet or high pressure air for cleaning
- Clean with dry or damp cloth

NOTE: BEFORE RE-ENGAGING THE POWER MAKE SURE THERE ARE NO WET PARTS WHICH CAN CONDUCT ELECTRIC CURRENT

Functionally test

The PowerBOX25 must be tested at least every year in order to determine the functionality according to the respectively local legislation and law. To test relay switching refer to 'testing with test switch' or 'testing by switching of the mains' in the **Test and first use** part of this manual.

In order to test the autonomy of the emergency power function (1 hour) switch off the mains power for one hour and check visually if the lamps are still operational. Alternatively press the test switch and hold for one hour.

Replacing battery

ATTENTION: Read all Safety information in this manual before proceeding

NOTE: Always replace the battery with an original one.

- Open the PowerBOX25 by unscrewing the lid
- ATTENTION: Disconnect the battery before proceeding
- Unscrew the battery which is connected with 4 screws (2 self tapping 2 metric). Replace the battery with an original one and screw the screws back in (metric screws in the stands, self tapping in other holes).
- Fill out the installation date on the installation sticker
- Put the lid back on and tighten the screws so the gasket seals perfectly



Warranty

As of the purchase date the warranty is limited to two (2) years except for the battery which is one (1) year. Warranty terms and conditions can be found on www.neofos.eu/producten garantie.

Disclaimer

NeoFos does not warrant proper working of the PowerBOX25 in all environments and applications and makes no warranty and representation, either implied or expressed, with respect to the quality, performance, merchantability or fitness for a particular purpose.

NeoFos has made every effort to ensure that this manual is accurate; NeoFos disclaims liability for any inaccuracies or omissions that may have occurred.

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All information in this manual is subject to own interpretation. Use own common sense and knowledge for mounting, installation, operation, service and maintenance. Images used in this manual can differ from the actual product.

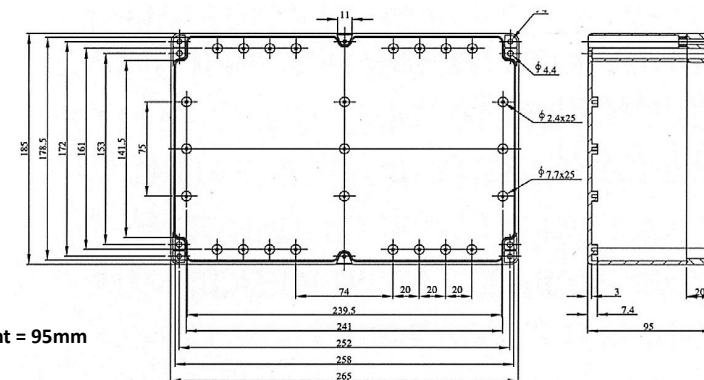
NeoFos B.V.
Rechte Tocht 9N
1507 BZ ZAANDAM
www.neofos.eu
info@neofos.eu

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NF-MAN_20150219_1-Powerbox25GD

PowerBOX 25



Length = 265mm Width = 185mm Height = 95mm

Contents:

- Powerbox25 (can be boxed separately)
- Additional mounting items needed;
- 4 x M4 bolts/screws and washers for surface mounting the Power supply box

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Packaging

- Items are carefully packed in project size boxes with paper/cardboard separation.
- Unpack carefully without damaging the items
- If the package upon delivery is damaged, immediate report to the transport company. Take pictures for evidence as those are valuable for future claim.

Safety information

WARNING, Carefully read this manual before mounting, installing, powering or servicing the device.

Mounting, installing, powering and servicing must be carried out by a qualified professional according to local legislation, regulation and code.

WARNING, First finish the whole (partial) installation before connection the AC mains

NOTE: Do nothing if any information is misunderstood!

Electrical hazard

- Shut down power (mains) and (if connected) disconnect the battery before installation or maintenance
- Powerboxes or other electrical equipment and supplies must installed by a qualified professional according to local legislation, regulation and code. Only acceptable source of AC power and frequency according to the specifications can be used.
- Do not use or do not connect the PowerBOX25 if it in any way is damaged, wet or overheated.
- Do not modify, alter or attempt to service the PowerboxX25. Doing so can cause damage and will void the warranty.
- Only connect the LED appliances which are tested thoroughly with the PowerBOX25. If uncertain, contact NeoFos for further information.
- AC Power supplies must be earthed in a proper way according to local code.

Fire prevention

- Follow all safety consideration and precaution according to local legislation, regulation and code.
- Never bypass Thermostatic switches or fuses
- Allowed maximum ambient temperature is 40°C

Specifications

Housing type	Dark grey ABS
IP rate	IP65
Ground plate	Steel 1mm
Connections	Wiska Cable GlandM20 (6-13mm)
Power IN	220/230V AC 50/60Hz
Power OUT	<250V DC
Emergency power module / Inverter type	NFYHL0350-2501L
LED indicator	Operational indicator green/red
Test facility	Test button / switch emergency power on-off
Battery	NF_BAT140619_135-105-26_1C
Type	NiMH C-cell 1,2V
Voltage	12V
Power	3500mAh
Tested Autonomy	@26W >1,5 hr
Calculated Autonomy	42W 1hr
Optimum operation environment	15-25°C

Installation

Physical installation

- Open the PowerBOX25 by unscrewing the 4 screws on the lid
- Install the Powerbox25 with 4 M4 screws or bolts to its supposed surface. Make sure the surface is flat. Mounting holes 153mm x 252mm, hole diameter 4.4mm

ATTENTION: DO NOT CONNECT THE BATTERY

Connecting lamp to PowerBOX25

WARNING: Before carrying out any work in the PowerBOX25 make sure the main power is switched OFF

WARNING: Do NOT connect the battery

- Strip the outer mantle of the lamp cable 6-8cm. Then strip 8mm of the solid core pairs and feed the cable through the gland 220/240V DC OUT (to lamp). Connect the pairs L (3) (brown), N (2) (blue) and PE (1)(green/yellow) to the according connections of the 3 pole connector (see illustration 1).

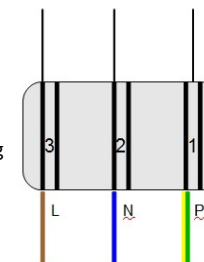


Illustration 1

Connection power to PowerBOX25

- Strip the outer mantle of the power cable (230V AC) 6-8cm. Then strip 8mm of the solid core pairs and feed the cable through the gland 230V AC IN.
- Connect the pairs L (5 – brown) N (4 - blue) L1 (3 – black), L2 (2 – black or grey) and PE (1 – green/yellow) to the according connections of the 5 pole connector (see illustration 2)
- Strip the purple or orange wire 8 mm and connect on the back of the connector to either L(5) always on, L1(3)switch wire 1 or L2(2) switch wire 2 (see illustration 2 for example, switch wire on L1)

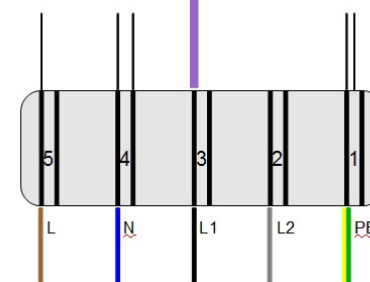


Illustration 2

Connecting battery

- Make sure all wiring of the lamp and AC power is connected accordingly before connecting the battery. If so, connect the battery wire (female black/red) to the corresponding male (black/red) wire.
- Fill out the installation date on the provided sticker and stick it to on the battery so anyone else knows the first use of the battery.
- For humid or dusty environments use supplied gasket is not installed. Put the lid back on and tighten the screws so the gasket seals perfectly
- **CHARGE AT LEAST 24 HOURS BEFORE OPERATIONAL USE AND TESTING.**

Test and first use

ATTENTION: Make sure the battery is charged for at least 24 hours.

The powerbox25 is equipped with a green/red indicator led which will light when the battery is connected accordingly.

Testing with test switch

To test the PowerBOX25 push the test switch to break the AC power circuit. A relay in the emergency power module switches AC power to DC power out to provide power to the lamp. The lamp will shortly go OFF (approx. 1 second) and be turned on again. If so, the PowerBOX25 is functional.

Testing by switching OFF the mains

To test the PowerBOX25 by switching of the main power is also possible. In order to do that, the according constant power need to be switched OFF on the central switch board.If done, a relay in the emergency power module switches AC power to DC power out to provide power to the lamp. The lamp will shortly go OFF (approx. 1 second) and be turned on again. If so, the PowerBOX25 is functional.

