



**FORTADOR**  
*Power Bank V-Series*

OPERATION MANUAL FOR  
PORTABLE POWER SUPPLY  
UNIT



# NOTE

Read the operating instructions carefully before starting up to avoid incorrect use or dangerous situations for people, animals or objects. The manufacturer is not responsible and excludes the application of the warranty conditions in cases of: improper use or use in improper conditions, damage resulting from normal wear and tear or aging, misuse, negligence, improper operation or storage, exposure to moisture, self-modification or repair, improper installation, use of improper power source, operator errors, failure to follow instructions or other events which are not the manufacturer's fault, including loss or damage during transportation.



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# INTRODUCTION

Thank you for purchasing Power Bank V-Series mobile power supply. The Fortador brand is the effect of many years of experience and a response to the needs of our customers. Technology enclosed in a modern housing provides more power and performance than ever before and less failure. Fortador Power Bank V Series is an alternative to fuel or gas powered generators. It generates no annoying sound or fumes, so it can be used in HACCAP conditions, healthcare or rooms with limited ventilation. It allows you to work with a load of up to 3000 Watts. It is charged by connecting to a standard 220V socket or solar panels installed on the roof of the car or a photovoltaic system in the house, workshop or car wash. The advantage of this device is a very small size while maintaining maximum power.

The device is equipped with components that allow for virtually lifetime operation. This is one investment that allows you to benefit for years from running on reliable equipment and free electricity generated by solar panels or other sources of renewable energy like windmills or water turbines.

The proprietary design and power management system allows for maintenance-free operation.

This exclusive model meets even the highest expectations by allowing you to charge and draw electricity at the same time.





Manufacturer and service  
[www.fortador.com](http://www.fortador.com)

# TECHNICAL SPECIFICATION

## Technical data

Power supply	2500 VA
Battery voltage	24 VDC
Charging current	20 A
Charging voltage	27,6V +/- 0,5V
AC voltage range	150 ~ 270 VAC
Output voltage range	AVR: 230 / 110V VAC +/- 8% ; Batteries: 230 / 110V VAC +/-1% (depending on version)
Inverter output frequency	50 Hz +/- 0.5 Hz
Overload protection	Battery mode: when the 110%~130% overload mode is activated, the device can still work for 30 seconds then turn off the device; when the 130% and above overload mode is activated, immediately disconnect the device from the external power source and turn off the device. Network mode: overload warning
Temperature range	0~40 C
Humidity range	10%RH~90%RH
Operating noise level	71 dB
Weight	85 kg

Technical data is shown on the nameplate mounted on the rear panel of the housing. Always quote the serial number on the rating plate when contacting the service department.

Manufacturer:	Fortador Europe	 <b>FORTADOR™</b> <small>powered by L&amp;B</small>
Model:	Fortador Power Bank V-Series	
Voltage (IN):	230V AC 50-60 Hz	
Voltage (OUT):	230V AC+1%(ACU)+8%AVR	
Power:	2500 VA / 1800 W / <1A	
Battery:	2x100Ah VRLA AGM	
Battery Voltage:	24V DC	
Weight:	85kg	
S/N:	V010011	
Manufacturing year:	2021	
		
<small>Read the instructions carefully before use! Made in Poland</small>		



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# DEVICE CHARACTERISTICS



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1. Display
  2. Grip/holder for Pro+/ProS device
  3. On/off switch
  4. Power cord
  5. On/off switch. vacuum cleaner. socket number 7
  6. Charging on/off switch
  7. Electric socket with a "Soft start" function for connecting a vacuum cleaner
  8. Power socket for Fortador devices

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# SAFETY INFORMATION

The V-Series Industrial Portable Power Bank should not be handled by anyone unaware of the hazards involved. The information and recommendations in these instructions must be properly understood and followed if the correct and safe operation of the device is to be achieved.

As with most mechanical equipment, proper safety precautions must be observed when operating and handling this device. Failure to follow the instructions and recommendations contained in this document may result in personal injury or damage to the device itself or other property in the vicinity. At the same time, it should be borne in mind that it is not possible to provide exhaustive guidance and recommendations which would allow for the complete elimination of risks during the operation and handling of this equipment and during the handling and use of the chemical products which this equipment has been designed to process. Additional safety measures may be necessary for specific applications and operating conditions that are not covered in this document. In cases not discussed, the user must comply with generally accepted safety rules.

**Please read these instructions carefully before starting the unit and operating it.**

The owner's manual should be kept for later use or for the next owner.



**IMPORTANT:**

Do not open the device while it is in operation. Risk of electrocution.

Be careful - device under voltage.

Do not direct a jet of water or steam towards the unit.

- The operator should be sober, of legal age and trained in the operation.
- Spare parts must not be different from those recommended and manufactured by the manufacturer
- If damaged, the power cord must be replaced by an authorized service center under penalty of warranty.
- Before starting the machine, check that the operating openings are clear of debris.
- Do not start the machine if the electrical cord or any other part is damaged.
- Do not operate the machine in the rain or when it is wet.
- Never tilt or roll the machine while it is turned on.
- Always turn off the unit when it is being cleaned.
- Children must absolutely not be allowed to come into contact with the device.
- Use caution when working near children or animals.
- Do not use a damaged machine or one in which the power cord shows signs of damage. If the machine is not working as it should, has fallen, been damaged, been left outside, or has been flooded, contact service: [help@fortador.com](mailto:help@fortador.com).
- Do not pull or lift by the power cord.
- Keep the machine away from open flames, radiators, stoves or other heat sources.
- Do not operate the machine in a very humid and/or dusty environment.
- The unit should not be moved during operation.
- The machine should be connected to an electrical system with a working ground. Operating the machine connected to a system without earthing is prohibited and may result in electric shock!
- Do not immerse the machine or any of its components in water or other liquids.
- It is strictly prohibited to use the machine in explosive areas.
- Never use the machine in the vicinity of toxic/hazardous substances.
- Never place the machine on temperature-sensitive surfaces.
- Do not leave the machine in places exposed to the forces of nature.
- Do not use excessive force when operating buttons / switches / sockets
- The machine should stand horizontally on a stable surface.
- Ensure that the wheels are locked during operation.
- Never leave the machine running unattended.
- Do not point a jet of steam or water at the appliance.
- The machine should be switched off when not in use.
- It is unacceptable to repair fuse links by means wire which consists in putting a wire or other metal objects in place of a burnt fuse wire.
- Do not operate electrical equipment with wet hands or while standing on a wet floor; in damp rooms and other areas where there is an increased risk of electric shock, hand-held equipment not equipped with double insulation is not permitted.
- Do not remove covers ( housings ) from the unit when it is switched on.
- Do not change the type of plug installed on the device.



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# UNPACKING

1. Gently remove the machine from the packaging.
2. Inspect the unit for any damage that may have occurred during delivery.
3. We recommend that you keep the packaging.

## Packaging dimensions



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# BEFORE EACH START-UP

The procedure should be carried out before starting the machine to ensure proper and safe operation.

1. Make sure that the electrical cord, electrical outlets are not damaged.
2. Check that the case is closed.
3. USet the vacuum cleaner star/stop switch to the "0" position.
4. If the unit is discharged, plug the unit into a grounded electrical outlet to recharge.

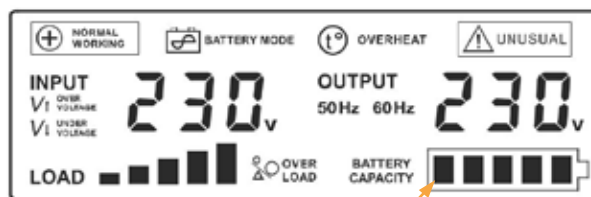


# HOW TO USE AND INSTALL THE DEVICE FOR THE FIRST TIME

Startup procedure for the Power Bank



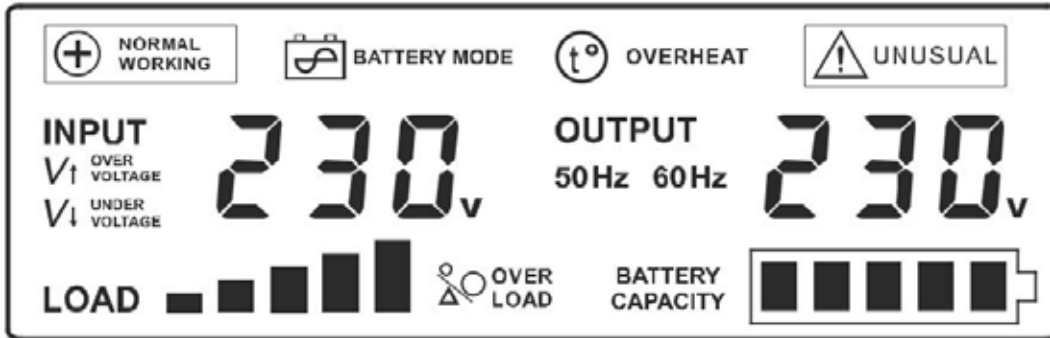
- 1 Press and hold the start/stop button. Hold down the button for 5 seconds until a beep sounds and the device display switches on.
- 2 Check the battery status on the display. One bar indicates the minimum charge level. Five bars indicate the maximum charge level..



Battery charge level

- 3 If the batteries are discharged, follow the instructions Charging the Power Bank.
- 4 If the unit shows the maximum battery charge - follow the instructions - Connecting the Fortador car wash to a portable power source Power Bank V series.

# DESCRIPTION OF THE POWER BANK DISPLAY FUNCTIONS



**NORMAL WORKING** Device connected to external power supply - AVR.



**OVER LOAD** Charging exceeds the rated power of the device.



**BATTERY MODE**

The device uses battery power supply - AC



Battery charge level information.



**OVERHEAT**

The temperature is too high, the unit shuts off the power



Battery bar showing battery capacity.



**UNUSUAL**

Excessive battery voltage, disable charging.

INPUT **230v**

Input voltage

**OVER VOLTAGE**

Too high voltage from the public grid.

OUTPUT **230v**

Output voltage

**UNDER VOLTAGE**

Voltage from the public grid is too low.

# CONNECTING DEVICES

- 1 Start the Power Bank according to the Power Bank Startup procedure.
- 2 Check that the device shows the correct battery level on the display.

- 3 Connect the Fortador device to outlet number 8



Power socket for Fortador devices (number 8)

- 4 When connecting the Pro+ device, you must first connect the unit's vacuum cleaner to socket number 7 on the Power Bank. The Pro+ should then be plugged into socket number 8 on the Power Bank.



Power socket for Fortador devices (number 8)

Electric socket with a "Soft start" function for connecting a vacuum cleaner (number 7)

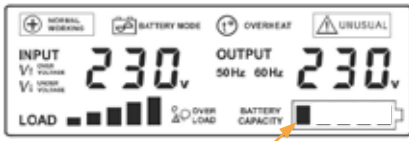


- 5 Switch the on/off button to position 1 (this must be done when the Fortador Pro+ is connected).

On/off switch - vacuum cleaner - socket number 7

- 6 After completing the steps of connecting the Fortador to the portable Power Bank, depending on the model of the unit, start the Fortador and begin operation.

# CHARGING THE POWER BANK DEVICE



Battery bar showing battery capacity

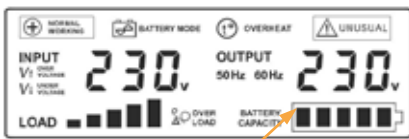
- 1 If the unit is discharged, the display will indicate that the unit is out of power, in the form of a single dash on the battery meter.



- 2 Connect the unit to an external power source using the power cord.

Power cord

- 3 Start charging by pressing the on/off charging switch - button number 6.



Battery bar showing battery capacity

- 4 When the device is fully charged, the display will show 5 vertical bars.

- 5 Press the charge button (button number 6) again to turn off the charge.

- 6 Disconnect the device from the external power supply

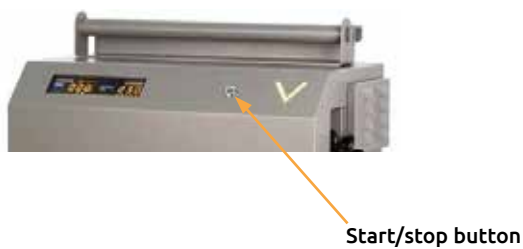
# SWITCH OFF PROCEDURE



- 1 Disconnect all devices connected to the Power Bank device, sockets number 7 and 8.



- 2 Disconnect the device from the external power supply.



- 3 Hold down the start/stop button for 5 seconds until a beep sounds.



# CE DECLARATION

<b>Manufacturer</b>	Fortador K.A. Traczyńscy Sp.J. Aleja Krakowska 108 05-090 Sękocin Stary, Poland
<b>Product designation</b>	Portable power supply unit
<b>Brand</b>	Fortador
<b>Model</b>	Power Bank V-Series
<b>Directive No.</b>	89 / 336 / EEC
<b>Voltage during test</b>	AC 230 V / 50 Hz
<b>Technical standards</b>	EN 55014-1 EN 55014-2 EN 60335-1 EN 60335-2-79 EN 61000-3-2 EN 61000-3-3
<b>Date of test</b>	23-25 .11.2020

The CE declaration of conformity is based on the directive 89/336/EEC relating to electromagnetic compatibility of devices. This declaration confirms that the equipment in question complies with the essential requirements of the directive and refers to the sample and the technical documentation submitted to TÜV SÜD Product Service GmbH for testing and certification.



**CE** After preparation of the necessary technical documentation as well as the conformity directives have to be observed.

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# TRANSPORT

The device can be transported by any means of transport, provided that it is properly immobilised (e.g. with belts) and protected against damage in the original box delivered with the machine.

Make sure that the wheels of the machine are properly locked and the belts are properly tightened to prevent the machine from moving.

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# FINAL REMARKS

Properly maintained and serviced, FORTADOR Power Bank devices ensure a long period of reliable operation. Problems that may occur while using the unit should be resolved before proceeding. When operating any machine, it is essential to have knowledge of the normal operation of the machine so that incorrect operation can be recognized. Observe all generally accepted safety precautions when working with electrical devices. This manual has been written to provide the most complete knowledge of the operations performed by this device. It is imperative that operators read and understand this manual before attempting to solve any problems. All repairs, made by yourself during the warranty period are prohibited and will void the warranty, so if you have any problems or concerns, please contact our service department.

**e-mail: [help@fortador.com](mailto:help@fortador.com)**

**tel. +48 791 400 166**





**FORTADOR™**

*powered by Lamborghini*

[www.fortador.com](http://www.fortador.com)