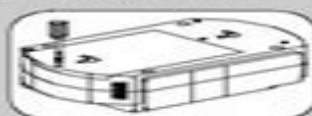


## 1 Connect Battery

The Back-UPS ES is shipped with one battery wire disconnected in compliance with Department of Transportation (DOT) regulations. The Back-UPS ES will not operate until the wire is connected to the touch safe battery terminal.

NOTE: Small sparks may occur during battery connection. This is normal.

- 1** TURN the Back-UPS ES over and remove the battery compartment cover screw using a flat blade or Phillips-head screwdriver.



- 2** Slide the battery compartment cover completely off of the Back-UPS ES.



- 3** LIFT the battery out of the compartment and connect the black wire to the battery terminal.

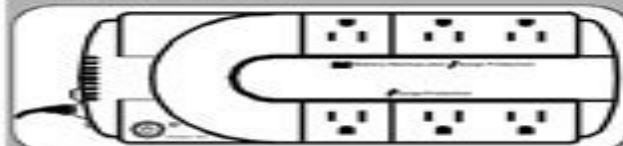


- 4** Replace the battery compartment cover and cover retaining screw.



### Battery Back-up plus Surge Protection

These outlets are powered whenever the Back-UPS ES is switched ON. During a power outage or other utility problems (brownouts, over-voltages), these outlets will be powered for a limited time by the Back-UPS ES. Plug your computer, monitor, and one other data-sensitive device (external disk or tape drive) into these outlets.

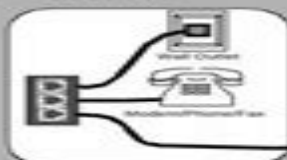


### Surge Protection

These outlets provide full-time protection from surges even if the Back-UPS ES is switched OFF. Plug your printer, fax machine, scanner, or other peripherals that do not need battery power into these outlets.

### Connect FAX/Modem/Phone

Back-UPS ES protects a single line (2-wire) fax, modem or phone from surges when it is connected through the Back-UPS ES as shown.



## 2 Connect Equipment

Place the Back-UPS ES to avoid:

- Direct sunlight
- Excessive heat
- Excessive humidity or contact with fluids

Plug the Back-UPS ES power cord directly into a wall outlet; not a surge protector or power strip.

### Connect Computer Cable

The supplied cable and software provide automatic file saving and shutdown of the operating system in the case of a sustained power outage.

Connect the cable to the Data Port of the Back-UPS ES. Connect the other end of the cable to the USB port on your computer. The software will automatically find the USB Port of your computer.



## Status Indications

The Back-UPS ES indicates operating status using a combination of visual and audible indicators.

Status	Visual Indications	Audible Indication	Alarm Terminates When
On Line - UPS is supplying conditioned utility power to the load	Power On LED - ON	None	N/A
On Battery - UPS is supplying battery power to the load connected to the Battery outlets	Power On LED - ON (off during beeps)	Beeping 4 times every 20 seconds	UPS transfers back to On Line operation, or when UPS is turned off.
Low Battery Warning - UPS is supplying battery power to the load connected to the Battery outlets and the battery is near exhausted	Power On LED - Flashing	Rapid beeping (one second intervals)	UPS transfers back to On Line operation, or when UPS is turned off.
Replace Battery - Battery needs to be checked and/or replaced, or battery is not connected	Power On LED - Flashing	Constant tone	UPS turned off with the power switch.
Overload Shutdown - During On Battery operation a battery power supplied outlet overload was detected	Power On LED - OFF	Constant tone	UPS turned off with the power switch.
Sleep Mode - During On Battery operation the battery power has been completely exhausted and the UPS is waiting for utility power to return to normal	Power On LED - OFF	Beeping once every 4 seconds	UPS transfers back to On Line operation, or when UPS is turned off.
Building Wiring Fault - Your building wiring presents a shock hazard that should be corrected by a licensed electrician	Building Wiring Fault LED (RED) - ON	None	UPS is unplugged, or plugged into a properly wired outlet.

See the Troubleshooting section for additional assistance.

## 3 Power On and Install Software

Press the ON/OFF switch to power the unit ON.

A single short beep and the green "Power On" indicator confirms that Back-UPS ES is on and ready to provide protection.

The Back-UPS ES should charge for at least 16 hours to ensure sufficient runtime. The unit is being charged whenever it is connected to utility power, whether the unit is turned ON or OFF.

If the red Building Wiring Fault indicator (located on the end near the power cord) is lit, your building wiring presents a shock hazard that should be corrected by a qualified electrician.

### Install the PowerChute Personal® Edition Software

Place the PowerChute Personal Edition CD-ROM into your computer and follow the installation instructions on the screen.

# Service Manual Back Ups 400ei

**JL Elias**



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Życiorys w 1968 ukończył studia na wydziale projektowania przemysłowego asp w warszawie

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web krzysztof wodiczko is a former director of the center for advanced visual studies and the head of interrogative design group at mit and since 2010 is a professor and a coordinator of art design and the public domain a postgraduate mdes concentration at the graduate school of design at harvard university

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academia de bellas artes de varsovia posteriormente ejerció de profesor en la universidad politécnica de esa ciudad hasta que en 1977 se instaló en ontario Canadá

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web plate earthing diagram explained plate earthing is implemented when a plate made up of either copper or galvanized iron is buried vertically in the earth

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web include the earthing resistance and the minimum size of the earthing conductor which can be calculated using various methods as part of the design methodology lim s c and al shawesh y 35 proposed a systematic step by step approach for the design of reliable and effective earthing systems for low voltage

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web in the case of a plate earth electrode the earthing of the conductor shall be securely terminated onto the plate with two bolts nuts check nuts and washers in the pipe earth electrode wire type earthing conductor shall be secured using nuts washers bolts and washers and terminating socket

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web various types of earthing are mentioned below plate earthing pipe earthing strip earthing plate earthing the most efficient way of earthing is plate earthing which involves installing a galvanized copper plate 3m deep in

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web plate earthing fig 3 plate earthing for this form of earthing a plate composed of copper or galvanized iron is placed vertically in the ground pit less than three meters above the ground for a more effective electrical grounding system one must maintain the earth's moisture condition surrounding the plate earthing system

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wide variety of types of earth electrode regulation 542 02 01 lists the types recognised which include earth rods earth plates and figure 5 tt system figure 6 no earth provided tt system based on 25 mm<sup>2</sup> tails and

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web jul 12 2021 plate earthing in this method as illustrated in fig 1 the earth wire is securely bolted to the earth plate either of copper minimum size 60 cm 60 cm 3 18 mm or of galvanized iron minimum size 60 cm 60 cm 6 35 mm buried in the ground to the depth of 3 m

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web jun 1 2021 the diagram of plate earthing shows a plate electrode which is either made of galvanized iron or steel with a minimum thickness of 6 3 mm or copper with a minimum thickness of 3 15 mm the plate should be at least 60 cm by 60 cm in size the plate is buried in the earth surrounded by alternating layers of charcoal and salt

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