



OMNIPOWER

ELECTRICITY EVERYWHERE

USER MANUAL



POWERCADDY PS

Self-Contained Mobile Backup Power System

Models:

PowerCaddyPS-1xBatt

PowerCaddyPS-2xBatt

Version 1.1

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IMPORTANT: Read this User Manual thoroughly before using the unit!!!

1. INTRODUCTION

Thank you for purchasing a “Power Caddy PS”

Your Power Caddy PS is a versatile unit specifically designed to provide power when normal Utility power is not present or frequently fails. It can provide instant emergency power for many situations where either power has failed or when a ready source of portable power is needed for leisure activities such as weekend getaways, camping or boating activities.

Power Caddy PS is user friendly, eco-friendly, requires virtually no maintenance, and is inexpensive to operate.

It has a number of advanced features allowing you to:

- ✓ Have virtually instantaneous back-up power when a mains power failure occurs – with a seamless changeover.
- ✓ Equipped with a semi-sealed lead calcium battery.
- ✓ Unit must always stand upright as Lead Calcium battery is only semi-sealed.

This manual describes the simple steps to use the unit and explains the operation of the Power Caddy PS so you can understand what you can (and cannot) connect to the unit and what to do if you have a problem.



2. USING THE POWER CADDY PS

The Power Caddy PS is ready for use as soon as it has been unpacked. The unit is supplied with a fully-charged battery/batteries.

STEP 1:

Insert the supplied fuse (Image 1) into the fuse box and close the fuse box. There is no right or wrong way to insert the fuse.

STEP 2:

Press and hold the POWER ON/OFF button until the unit beeps several times.

STEP 3:

Plug your load into the white 3-prong AC outlet (Image 2).

STEP 4:

Plug your inverter into a wall socket by means of the kettle chord plug (Image 3) supplied with the unit. Switch the wall socket on and leave it on.

If you're going to take the Power Caddy PS away for the weekend you can unplug the charger cable and use the Power Caddy PS as and when you need it while camping or for other leisure activities.

If you are using it for home back-up power, you should always leave the unit connected to the AC mains and switched on, so that the battery is always charged and ready for use.



Image 1

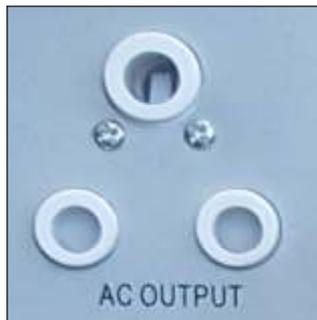


Image 2



Image 3

3. BACKUP POWER RUN-TIMES

For how long will you get power back-up?

The back-up time is load related and depends what is plugged into the unit and how long it needs to operate. See table below:

| Runtime (Hours) | PCPS-1xBatt | PCPS-2xBatt |
|-----------------|-------------|-------------|
| 1 | 480W | 960W |
| 2 | 240W | 480W |
| 3 | 160W | 320W |
| 4 | 120W | 240W |
| 5 | 96W | 192W |
| 6 | 80W | 160W |
| 7 | 69W | 137W |
| 8 | 60W | 120W |

THESE ARE CALCULATED BACKUP TIMES WITH A NEW AND FULLY CHARGED BATTERY AND MAY VARY WITH ENVIRONMENTAL, BATTERY CHARGE AND LOAD CONDITIONS.

Power Caddy PS can power an assortment of appliances covering most of the standard home entertainment and household low power appliances you might want to connect to it. The more equipment connected to the unit, the shorter the back-up time.

The following items **SHOULD NOT** be used with the Power Caddy PS:



2/4 Plate Stove



Electric Stove / Fridges



Electric Heater



Electric Kettle



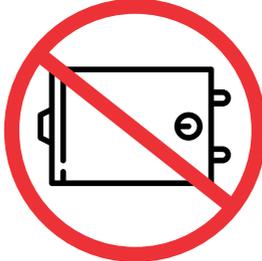
Hairdryer



Iron



Microwave Oven



Geyser



Toaster



Vacuum Cleaner



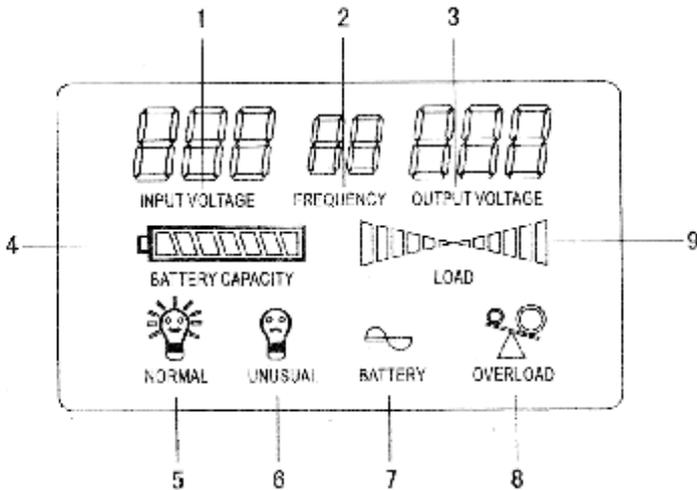
Air-Conditioner / Fans



Power Tools

This list is not exhaustive and should include any items/appliances with similar power profiles to the items/appliances above.

4. INVERTER DISPLAY AND TROUBLESHOOTING GUIDE



- | | |
|-----------------------------------|-------------------------------|
| 1. Commercial power input display | 6. Abnormal condition display |
| 2. Frequency display | 7. Inverter display |
| 3. Voltage output display | 8. Overload display |
| 4. Battery capacity | 9. Load utilization display |
| 5. Normal status display | |

| Problem | Solution |
|--|---|
| I've plugged in the equipment I want to use but there's no power output. | Is the Power Caddy PS battery fully charged? Have you switched it ON? |
| I've plugged in the equipment I want to use but there's no power output. The internal battery is correctly charged and the unit is ON. | Unplug the external equipment connected to the AC output socket; Reconnect the appliances, one by one, to the AC output socket. |
| The Power Caddy PS was working but it has now shut itself OFF. | Check the condition of the charge on the battery. Let the unit recharge back to full power – 6 to 12 hours. |
| There is no output power and the "OVERLOAD" icon is lit up. | You've overloaded the Power Caddy PS! Switch OFF the unit. Remove an appliance, wait a couple of seconds, then switch the inverter ON again. If necessary, remove more appliances. |

5. PRECAUTIONARY ADVICE

The manufacturer has taken all possible precautions to protect this unit against overload, over temperature, reverse polarity, etc. If excessive overload, excessive temperature and/or reverse polarity are applied to the unit, the protection circuit will work but with excessive mishandling they may give in after a while and this can cause damage to the unit. It is therefore up to the user to connect the correct loads and to use the unit within the specified parameters.

The user must also ensure that no reverse power is fed back into the output sockets of the system.

The unit must not be kept or operated in direct sunlight and should never be placed in a moist or wet environment.

WARNING !!!

The manufacturer of this unit has taken every care to protect this unit with a number of built-in protective circuits. If the specification says e.g. 'reverse polarity protection' or 'short circuit protection' etc. this does not mean that the unit cannot be damaged. Even though the protection circuits are activated, the unit can still be damaged under certain conditions, specifically but not only, if the user repeatedly applies a fault condition.

The protection circuits are there to limit the potential damage caused by reversed polarity or overloads and to stop a potential fire.

If a protective fuse blows, it is a strong indication that the unit is already damaged, do not attempt to replace the fuse.

This type of damage is NOT covered by the Warranty. Please return the unit to your nearest service centre.

6. TECHNICAL SPECIFICATIONS

| | 1xBatt | 2xBatt |
|--------------------------------|---|-----------------|
| Continuous Power | 1000VA/850W | 2000VA/1700W |
| AC Input | | |
| Voltage | 145 ~ 275Vac | |
| Frequency | 50Hz ± 10% | |
| AC Output | | |
| Voltage | 220VAC ± 5% | |
| Frequency | 50 ± 0.5Hz | |
| Waveform | Pure Sinewave | |
| Efficiency | ≥ 85% (DC to AC) | |
| DC Voltage | 12VDC | 24VDC |
| Charge Current | Maximum charge current 15A | |
| Charge Efficiency | 8 to 12 hours, recharge 90% | |
| Protection | Overload short circuit, battery high- and low-voltage protection, reverse polarity protection | |
| Alarm | Beeps 4 times when grid power fails | |
| | When battery power is low, the alarm will sound in increasing frequency until the device turns off automatically | |
| Display | Connected to grid power, charging state will be shown; when in battery mode, the battery status and capacity will be displayed. | |
| Noise Level | ≤45dB | |
| Temperature | 0°C - 40°C | |
| Humidity | 10% - 90% (no condensate) | |
| MISCELLANEOUS: | | |
| 1 x Standard 3-Prong AC Outlet | YES | |
| Dimensions W x D x H mm | 280 x 500 x 420 | 400 x 600 x 420 |
| Net weight kg (with packaging) | +37kg | +67kg |

7. WARRANTY

We warrant this product against defects in equipment, materials and workmanship for a period of 12 months from the date of purchase and will repair or replace any defective item within the Power Caddy PS.

The unit must be returned in its entirety to the Dealer from which you purchased the unit. Proof of purchase must be retained.

Warranty is subject to the unit being used in an adequately ventilated, suitable environment and excludes any fault attributable to incorrect use, misuse or service by unauthorised personal.

The warranty is void if the fault is due to the end user or third party causing in particular, **improper or negligent handling**, such as 'short circuit' and /or 'reversed polarity' or by improper use or operation.

Warranty repairs do not include any shipping, transportation or reinstallation costs.

The Dealer limits liability for any damage caused to external devices connected to the Power Caddy PS to the cost of the Power Caddy PS.

It is the responsibility of the end user or third party to ensure sufficient care is taken to protect the Power Caddy PS from incorrect connection and overload when connected to external devices.

No claims will be considered where the Power Caddy PS is used for applications outside the functional specifications for which it is intended.

Severability

If a part of the terms and conditions set out above is held invalid, void or unenforceable due to any particular national or international legislation, it shall not affect other parts of the terms and conditions remaining.

