



PowaSava[®]

USER MANUAL



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Thank you

Thank you for purchasing the PowaSava®. We believe it will provide you many years of service with significant electric power savings.

Please read the following safety instructions and keep this User Manual available so that you can refer back to it at any time.

Contents

- 1 x PowaSava® with 500mm white mains cable and plug
- 1 x User Manual

Safety

1. There are no parts of this product that can be serviced. Please do not try to disassemble this PowaSava® as there is a high risk of personal injury or possibly death from electrocution.
2. Only use this PowaSava® in dry conditions and inside a building.
3. Only connect one appliance to the socket of the PowaSava®.
4. No extension lead and/or plug adaptors may be used with the PowaSava® - either at the plug or socket end of the PowaSava®. If you do so, you risk damaging the unit and invalidating the warranty.
5. Never connect any appliance to the PowaSava® socket that has an electrical mains cable longer than 2 meters.
6. The maximum load of the PowaSava® is 3,000 Watts (3KW). Please check that your electrical appliance does not exceed this maximum load.
7. During operation, the PowaSava® will become warm to touch on the outside of the casing - this is normal.
8. Please ensure that the PowaSava® has adequate ventilation. Leave at least 10mm of space on all sides and top.
9. Ensure that the casing of the unit is not facing any form of heat source such as radiators, fan heaters, fire etc.
10. Before connecting the PowaSava®, please make sure that the mains socket and your electric appliance is switched off.
11. Insert the plug of the PowaSava® into the mains socket.
12. Insert the plug of your electrical appliance into the socket of the PowaSava®.
13. Switch on the mains socket switch.
14. Switch on you appliance.
15. Never use water or any liquid to clean the PowaSava®.
16. In the event that water or liquid is spilled onto the PowaSava®, immediately switch off the mains socket's switch if safe to do so.
17. If any part of the PowaSava® mains cable or plug is broken or damaged in any way, do not use it and seek advice from a qualified electrician as to its safety.

How does it work?

The PowaSava® uses a combination of advanced technologies with a newly invented 'intelligent' computer chip and program to identify the 'optimum' voltage and power needed to run your electrical appliance.

What does it work on?

The PowaSava® will work on most electrical appliance. We recommend that you use the PowaSava® on the electrical appliances in your home up to a maximum power of 3,000 Watts (3KW).

How many appliances can I plug into the PowaSava® ?

A maximum of one electrical appliance with up to 3,000 Watts (3KW) can be plugged into the PowaSava® socket at any one time.

What does it do?

This unique patented device achieves electricity cost savings of up to 15%¹ by identifying the optimum voltage needed to efficiently run most electrical appliances. The PowaSava also:

1. Can increase the life cycle of your appliance.
2. Protects your appliance from 'energy spikes' caused by over voltage supply and tripped circuit breakers.
3. Reduces your carbon emmissions.

How does it do that?

Incoming house voltage should be 230V but varies between 216 and 253; and has been recorded at 272V. Most electrical appliances operate at their maximum efficiency at 230V.

When the voltage into your home increases above 230V, three things happen:

1. It costs you more money in electricity,
2. Your appliance works harder than it should; so the appliance 'wears out' faster,
3. Your home uses more energy than you need; which adds to worldwide CO2 emissions.

¹ Independent testing by LCS 21/8/2008 & Emtek 19/10/2008

How much money could I save?

This depends on the power of the appliance and your incoming mains voltage. The larger the power needed to run your appliance coupled with the higher incoming mains voltage, the more money you save. If the incoming mains voltage is between 230V – 250V, then the savings could be up to 15% of the cost on running that appliance plugged into the PowaSava®. Electrical power savings may be reduced if used on thermostatic controlled devices.

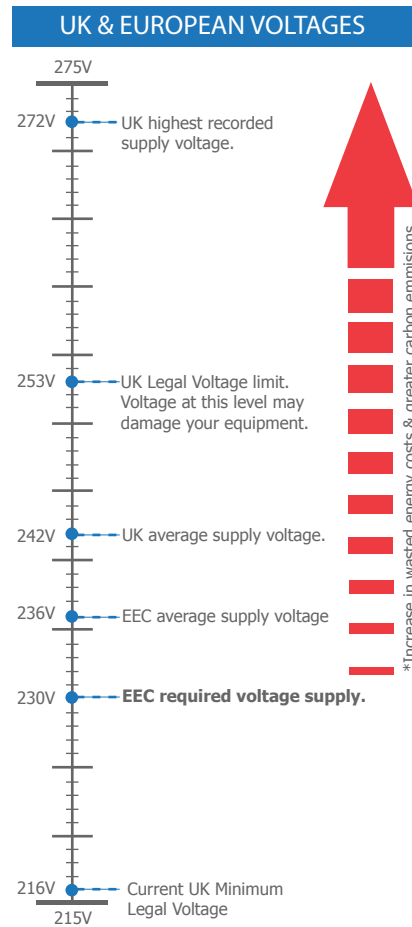
However, if the incoming mains voltage is between 230 – 250 Volts, then the savings could be up to 15% of the cost of running that appliance plugged into the PowaSava®. Most homes and offices usually have approximately 240V – 250V of incoming voltage.

Prior to 1995, the UK mains voltage was 240 Volts. In 1995, the UK agreed with the EU to 'harmonise' with the rest of Europe to 230 Volts. But the costs of replacing all the UK supply equipment to deliver 230 Volts was so expensive that the UK agreed with the EU to allow the UK a legal voltage limit of +10% and -6% of 230 Volts.

This 'legal voltage limit' permits the UK generators of electricity to supply homes and offices mains voltage of 216.2V to 253V. This legal voltage limit is to change again to + or – 10% - 207V to 253V sometime soon (originally planned for 2008 but it has been rescheduled).

To calculate the potential savings using the PowaSava® you will need to know 2 things – the power of your appliance and the incoming mains voltage. Most appliances have the power stated either on the appliance or in the user manual. This 'power' is expressed as Watts. Your electric meter measures Watts and you are charged for each 1,000 Watts (1KW) each hour that your appliance is running. You will see on your electricity bill the charge per for unit. This 'unit' charge is for 1KW of electric power used per hour.

The unit charge varies between different suppliers of electricity; and these suppliers have many different 'tariffs' for charging one unit. Charges vary between 10p to 25p and above for one unit of electricity used. The only constant factor about electricity supply is that the costs keep rising.



The PowaSava® has been independently tested by two accredited Testing Companies¹. To see the summary of one of these Reports, please check on our website at www.aemptor.com. This Report should be used as a reference source only and it is not a guarantee that you will achieve the same results.

The Reports show that, dependent on the incoming house voltage and the power of your appliance, savings of up to 15% can be saved per appliance. This means you could see a reduction in the electrical cost of that appliance by up to 15%. So if you have a 3 KW appliance, and it is used to 6 hours a day; 6 days a week; 16 weeks a year the cost of electric at 20p per unit will be:

$$(3 \times 6 \times 6 \times 16 = 1,728 \text{ KW} \times \text{£}0.20) \text{ £}345.60 \text{ per year}$$

The PowaSava® would, in this example, save up to 15% of this cost - £51.84.

Of course, you could use the appliance for less time and days and the saving would be less; conversely you could use your appliance more and therefore **save more money; extend the life of the appliance and reduce your carbon footprint.**

There can be never be an absolute guarantee of saving on your electricity bill because it depends on the incoming mains voltage; which changes almost every minute and is also subject to where you live, the condition of your appliance and wiring installation.

How do I use it?

Just plug the 3 pin plug of the PowaSava® into the nearest mains socket to your appliance; then plug in your appliance into the socket of the PowaSava®. Switch on your appliance and wall socket and then PowaSava® is operational. The PowaSava® starts working immediately; saving you money, extending your appliance life and reducing the planet's carbon emissions.

Is the PowaSava® safe to use?

The PowaSava® has been independently tested² to the exacting standards of CE and has achieved certification. The PowaSava® and all its components are compliant with the RoHS standards. In addition to these high standards of safety, we have also added a few others:

1. Automatic Overload Protection System – this ensures that if your appliance is rated at above the maximum ability of the PowaSava® – 3 KW – or if your appliance develops a fault, then the PowaSava® automatically shuts down the electrical power to your appliance.
2. All electrical items produce heat during normal operation. The PowaSava® is fitted with an additional cooling system that forces cool air over its electrical components. This ensures a greater operating life for the PowaSava® and also makes it safer to use with large power appliances.

¹ Independent testing by LCS 21/8/2008 & Emtek 19/10/2008

² Emtek Co. Ltd. 23/10/2008

Trouble Shooting

Event	Possible Reason	Action	
1. Not working with no LED lights illuminated	a) No power	a) Insert the PowaSava® plug into the mains socket.	
		b) Check that the mains switch on the socket is in the 'ON' position.	
		c) Check that there has been no power failure to the mains socket.	
2. Green LED and Yellow LED Light on but the electrical appliance is not working.	a) Appliance not switched on.	a) Locate the power switch on your appliance and turn it on.	
		b) Appliance faulty	b) If the appliance is turned on then consult your appliance user manual for further information.
		c) Appliance not plugged into the PowaSava®	c) Check that your appliance mains plug is securely inserted into the PowaSava® socket.
		d) PowaSava® not functioning.	d) Contact PowaSava® Customer Support.
3. Red LED constantly illuminated on the PowaSava®	a) Your appliance is over 3,000 Watts and the safety overload protection system has been activated.	a) Switch off and remove your appliance plug from the PowaSava®. This appliance cannot be used on the PowaSava®.	
		b) Your appliance has a technical fault.	b) Switch off and remove your appliance plug from the PowaSava® and seek help from your supplier of the appliance.
4. Red slow flashing LED on the PowaSava®	a) PowaSava® has overheated and the safety protection system has been activated.	a) Switch-off the PowaSava® and remove the mains plug from the wall socket. Remove your appliance plug from the PowaSava® and wait until it has cooled down. Then reconnect.	
5. Casing or any other part of the PowaSava® has been damaged.	a) PowaSava® has suffered some form of external impact.	a) Do not use the PowaSava®. If connected, switch off mains socket and remove appliance plug and PowaSava® plug from the mains socket. Seek advice from a qualified electrician as to the PowaSava® condition or contact PowaSava® Customer Support for further help.	

Specifications:

TYPES 1, 2, 4

Voltage:	200V - 250V~, 50Hz.
Maximum Amps:	13 Amps.
Maximum Load:	3KW - Auto overload protection.
Power Consumption:	≤1 Watt standby - 100 Watts at maximum load.
Use:	Covered dry environment.
Input Plug:	White, 13 Amp fused, BSI Standard.
Output Socket:	White, 13 Amp, BSI Standard.
Mains Cable:	White cable, length 500mm, VDE approved.
Footprint:	80mm (L) x 63mm (W) x 180mm (H) (Approximately)
Weight:	570 grams (Approximately)

- User Manual
- 2 Years Warranty
- CE Certified
- RoHS Compliant

TYPE 3

Voltage:	110V - 130V~, 60Hz.
Maximum Amps:	13.5 Amps.
Maximum Load:	3KW - Auto overload protection.
Power Consumption:	≤1 Watt standby - 100 Watts at maximum load.
Use:	Covered dry environment.
Input Plug:	White, 15 Amp fused, UL.
Output Socket:	White, 15 Amp, UL.
Mains Cable:	White cable, length 500mm, VDE approved.
Footprint:	80mm x 63mm x 180mm (Approximately)
Weight:	570 grams (Approximately)

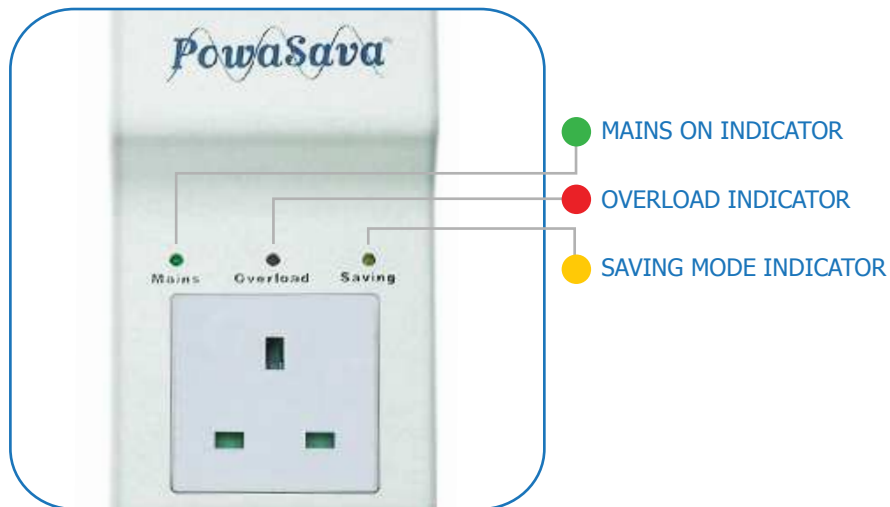
- User Manual
- 2 Years Warranty
- UL Certified

EXCEPTIONS: Audio/visual products (televisions), Hi-Fi and Computers. Do not use the PowaSava® on these types of products.

WARNING:

- You should never use any plug adaptor and/or extension lead at the plug or socket end of the PowaSava®
- You must also ensure that your appliance electrical mains lead is not longer than 2 meters.

LED Indicators:



LED INDICATORS

- MAINS ON INDICATOR
- OVERLOAD INDICATOR
- SAVING MODE INDICATOR

Mains: **Constant green colour** - the mains plug is connected to mains and internal power supply is working.

Overload: **Constant Red colour** - Overload state. The PowaSava® has shutdown. Will only restart when you remove the PowaSava® plug from the mains socket, and your appliance is inspected for incorrect power size or for a fault in your appliance.

Red flashing slowly - Overheated internal cooling system. PowaSava® has been shut down. Will only restart when you remove the PowaSava® plug from the mains socket, disconnect your appliance, and allow the internal temperature to fall below 85° C.

Saving: **Constant Yellow colour** - PowaSava® is operating correctly in 'Saving' mode.

Countries of Use

Country	Volts	Plug Type
Bahrain	230V, 50Hz	G
Brunei	240V, 50Hz	G
Cyprus	240V, 50Hz	G
Falkland Islands	240V, 50Hz	G
Gambia	230V, 50Hz	G
Gibraltar	230V, 50Hz	G
Grenada	240V, 50Hz	G
Hong Kong	230V, 50Hz	G
Ireland	230V, 50Hz	G
Kenya	240V, 50Hz	G
Malawi	240V, 50Hz	G
Malaysia	240V, 50Hz	G
Malta	230V, 50Hz	G
Seychelles	240V, 50Hz	G
Singapore	240V, 50Hz	G
St. Lucia (Winward Is.)	230V, 50Hz	G
Uganda	220V, 50Hz	G
United Kingdom	240V, 50Hz	G, K

Declaration of Conformity

The Manufacturer of the Products covered by this Declaration is:

Alpha Emptor Limited
1508 Eastern Tower, Yihai Square,
Commercial Building
North Chuang Ye Road, Nanshan, Shenzhen, China 518054

Company Registered in Hong Kong Number: 1125122

The Directives covered by this Declaration:

EMC Directive 2004/108/EC and the LVD 2006/95/EC

The Product Covered by this Declaration is the PowaSava®

The Basis on which Conformity is being declared:

EN55014-: 2006,

EN61000-3-2: 2006,

EN6100-3-3: 1995+A1: 2001+A2: 2005,

EN55014-2: 1997+A1: 2001

EN60335-1: 2002+A1: 2004+A11: 2004+A12: 2006+A2: 2006

EN50366: 2003+A1: 2006

The manufacturer hereby declares under his sole responsibility that the products identified above comply with the protection requirements of the EMC directive and with the principal elements of the safety objectives, and that the standards have been applied.

The technical documentation required to demonstrate that the products meet the above requirements has been compiled and is available for inspection by the relevant enforcement authorities. The CE mark was first applied in October 2008.



Warranty Terms & Conditions

1. These terms and conditions do not affect your statutory rights.
2. Please check the PowaSava® package and contents as soon as possible. If the PowaSava® or any other item included in the package is damaged or faulty, you must inform the store immediately or at the latest within 7 (seven) days of the date of purchase. If the store you purchased it from does not offer an exchange and/or replacement service, we will arrange collection and replacement at our cost. If you do not inform us within 7 days we shall have no liability for the PowaSava® said to be damaged/items missing at time of purchase.
3. Alpha Emptor Limited guarantee that the PowaSava® will be free from defects for 12 (twelve) months from the date of purchase. If PowaSava® does not conform to this Warranty then we will at our option either remedy the defect in question or replace the PowaSava® or refund the price paid, subject to sight of the original receipt from the store it was purchased.
4. The first 12 (twelve) months of Warranty cover parts and labour. The warranty period commences on the day of purchase. Any repairs or parts supplied or other work carried out which are found to be outside the terms of this warranty will be charged to the purchaser, and will be payable at the point of service. If no fault is found or the fault is outside the scope of the warranty then a possible charge for labour and transportation may be made.
5. The purchaser must ensure the environmental and power supply conditions are suitable for the PowaSava® and that the PowaSava® is cared for and maintained in accordance with the recommendations stated in this User manual.
6. To return goods please contact Customer Support on the number given in this User Manual.

Exclusions to the Warranty:

7. Breakdowns or failures arising from any external influences such as misuse, neglect, excessive wear to the equipment and other external influences such as, but not limited to poor environmental conditions.
8. Purchaser's consequential loss or liability of any kind.
9. We do not accept liability for returns damaged in transit or not received by us.
10. Every care has been taken in the preparation of all and any details or statement made in this User Manual and the PowaSava® packaging. However, as far as is permitted by applicable law, we disclaim all warranties, express or implied as to the accuracy of information contained herein.