

LiteSava®

Proven¹ to save up to **15%*** of your electric bill.

* Subject to use of specified lighting systems.



Description

LiteSava® provides Voltage Power Optimisation resulting in real-time accumulated energy savings across business and industry.



This unique patented device achieves electricity cost savings of up to 15%¹ by identifying the optimum voltage needed to efficiently run any fluorescent (traditional & electronic ballast), tungsten, halogen and filament lights. Simultaneously prolongs equipment and component lifecycle by up to 25%² thus resulting in reduced carbon footprint.

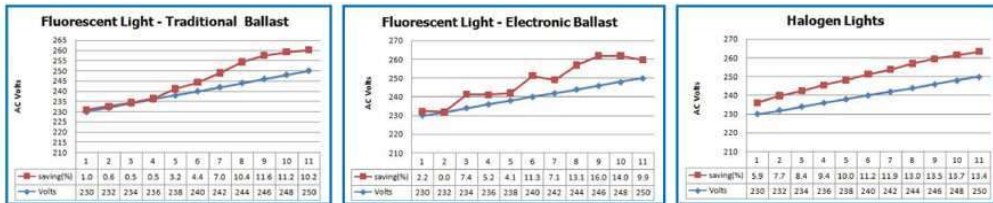


Illustration 1: Performance Graph of LiteSava®

Fully compliance-tested, the LiteSava® will maximise energy savings without reducing the performance of the lighting units, and is suitable for use in the industrial, retail, commercial, health and education sectors.

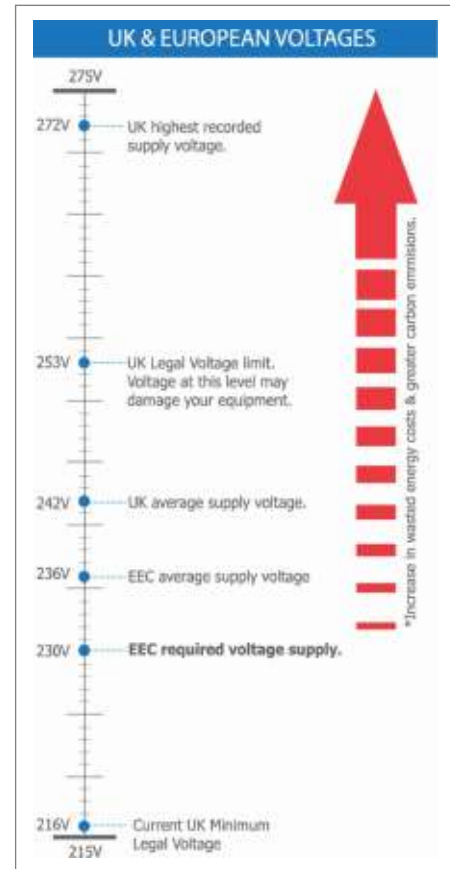


Illustration 2: UK & European Voltages



Background

The average voltage supply from the UK's National Grid is 242 Volts but actual supply can vary from a minimum of 216V to a maximum of 253V³. This large variance in supply voltage causes costly problems. The majority of lighting systems operate at maximum efficiency at 230 Volts therefore an increase in voltage supply of as little as 4.3% to 240 Volts creates; higher power usage (up to 13% more power), shortens lighting systems life cycle and increases CO₂ emissions.

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

² Refer to lighting federation report 2001 on 240V supply & reduction of ballast lights

³ Refer to Harmonization Agreement 1998



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ASIA SALES OFFICE
 phone: +86 755 2664 7764
 fax : +86 755 2664 8864
 email : sales@aemptor.com

Benefits

The LiteSava® combines a number of advanced technologies with a unique 'intelligent' chip and program to identify the 'optimum' voltage and power needed to run your lighting system, resulting in:

1. Cheaper electricity by eliminating the wasted power.
2. Increased equipment life cycle by reducing the 'overworked' lighting caused by higher voltage.
3. A reduction in CO₂ emissions and therefore in overall carbon footprint.

The LiteSava® has been fully certified by two independent accredited testing companies¹, both reporting that, dependent upon incoming Voltage, the LiteSava® can achieve savings of up to 15%¹. Thus the greater the incoming mains Voltage and the larger the power (Watts) needed to run the lighting system, the more money is saved.

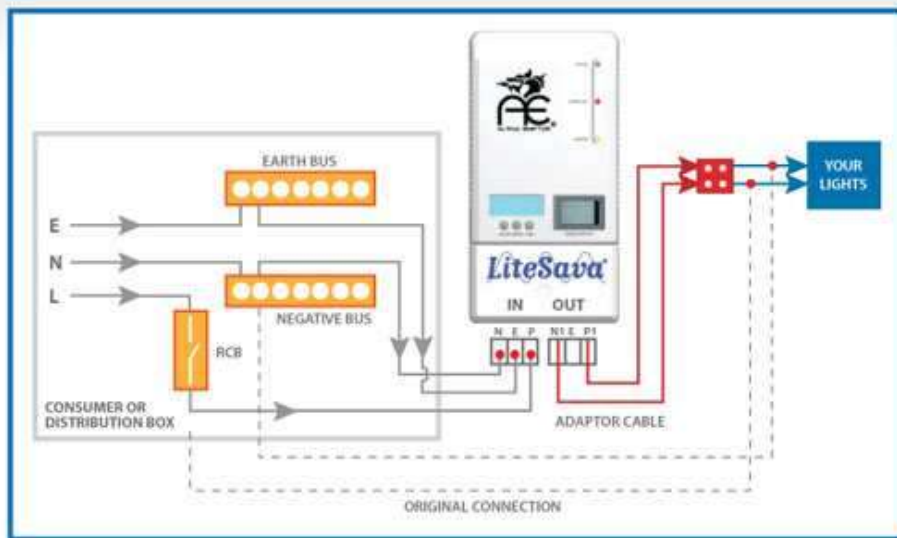


Illustration 2: Wiring Diagram of LiteSava®

Operation

Each LiteSava® unit can regulate up to 2,500 Watts (2.5 KW) - when connected to the RCB(s) that serve the lighting system. When the Mains Switch is turned on, the LiteSava® starts working. The integrated Power Meter allows the measurement of Watt usage both before and after the LiteSava® is triggered. The unit can also record the incoming Voltage; total KW used; and the duration of usage.

System Compatibility

The LiteSava® will work with mains fluorescent lights (traditional and electronic ballast), tungsten, halogen and filament lights without reducing performance.

Safety Assessment

The LiteSava® is fully CE, UL & CCC certified and RoHS compliant and has been independently tested to measure its performance. The unit also has the following added safety features:

1. Automatic Overload Protection System – an automatic shut down of electrical power is performed if the load exceeds the LiteSava® rating of over 2.5 KW or if a light system fault occurs.
2. Micro Cooling System - ensures a greater operating life for the unit and makes it safer to use with larger powered lighting units.

Conclusion

The Lighting Federation Report 2001 stated that the only way to successfully reduce costs and increase appliance life cycle is through a system of "Voltage Control" - The LiteSava® does this effectively and efficiently at a fraction of the cost of other systems.

The LiteSava® operates 24/7, comes with 2 years guarantee, is fully CE, UL & CCC certified and RoHS compliant, and could deliver significant returns on your investment.



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Specifications

Unit Specifications	
Voltage:	200V - 250V~, 50Hz.
Maximum Amps:	13 Amp
Maximum Load:	2.5KW - Fluorescent lightings only.
Power Consumption:	≤1 Watt on standby - 100 Watts at maximum load.
Site:	Covered dry environment.
Use:	Fluorescent (traditional & electronic ballast), tungsten, halogen & filament lights.
Operational Range:	-10 to 60° C, 10 to 95% humidity.
Mains Switch:	15 Amp
Wiring:	Direct to RCB in consumer or distribution board, up to 4.0 mm twin and earth.
Fixing:	3 point with 3.5 x 30 mm screws supplied.
Footprint (Approximately):	188mm (L) x 108mm (W) x 77.5mm (H)
Weight (Approximately):	600 grams

LCD Power Meter Specifications	
Voltage:	200V - 250V~, 50 Hz
Power:	1 to 2,500 Watts
Power Consumption Recorder:	0.0001 to 999.9 KWh
Duration of Operating Time :	minutes to 24 hours to 999 days.
Measurement Accuracy:	+/- 1 %
Refresh frequency:	≥ 1 per second.

- User Manual
 - 2 Years Warranty
 - CE, UL & CCC Certified
 - RoHS Compliant
- The LiteSava® does not work with:**
1. Metal Halide (MH) or High Intensity Discharge (HID)
 2. CDMT or CHA Systems
 3. High Frequency Ballasts

LED Indicators

Mains: Constant Green colour - The unit is connected to mains and internal power supply is working.

Overload: Constant Red colour - Overload state. The LiteSava® has shutdown. Will only restart when you switch off the LiteSava® mains switch and then inspect your lighting circuit for the correct load or for a fault in your system.

Red flashing slowly - Overheated internal cooling system. LiteSava® has been shutdown. Will only restart when you switch off the LiteSava® mains switch and allow the internal temperature to fall below 85°C.

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

Packaging Detail:

- Unit weight without packaging: 600 grams
- Unit weight with gift box: 750 grams
- Footprint (Approximately): 188 mm(L) x 108 mm (W) x 77.5 mm (H)
- Gift box dimensions: 232 mm (L) x 163 mm (W) x 85 mm (H)
- Carton grade: 150K/T EB Flute, Single Wall
- Exact carton dimensions: 479 mm (L) x 525 mm (W) x 341 mm (H)
- Quantity per carton: 24 Units
- Weight of packed carton: 19Kg
- Pallet dimensions: 1607 mm (L) x 990 mm (W) x 120 mm (H)
- No. of carton per 20 ft. : 36 Cartons
- No. of carton per 40 ft. : 84 Cartons

Delivery Terms:

- Standard delivery to most destinations 30-70 days of irrevocable and confirmed order.
- Expedite delivery (at 10% surcharge) to most destination within 20 days of irrevocable and confirmed order.

Payment Terms:

FOB Shenzhen, 50% with Purchase Order, balance upon successful inspection.

MOQ: 1000 units.

NOTE: Due to continuing programme of development, the details and specification contained in this document are subject to change without notice.



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