ZEBRONICS
ALWAYS AHEAD

CFL UPS
ZEB**CU5013**

POWER *UP*s

User Manual

Dear Customer,

Thank you for purchasing the **ZEB-CU5013** UPS. Please read the user manual carefully before usage & save it for future reference.

Important Safety Instructions

• Do not plug the UPS input into its own output.

• Do not allow liquids or any external object to enter the UPS.

• In the event of an emergency, press the OFF button and disconnect the power cord from the AC power supply to properly disable the UPS.

• This unit contains more than one live circuit (batteries & AC line). Power may be present at more than one source. To reduce the risk of electrical shock, disconnect both AC and DC power from the unit before attempting any maintenance or replacement inside the unit. Turning off the unit will not reduce this risk.

• Servicing of batteries should only be performed or supervised by personnel knowledgeable of batteries and with required precautions.

• When replacing the batteries, use the same number and type of batteries.

• Internal battery voltage is 12VDC. Sealed, lead-acid, 6-cell battery.

• Do not dispose of batteries in a fire. The battery may explode.

- A battery can present a risk of electrical shock and high short circuit current. The following precautions should be observed when working on batteries:

    a) Remove watches, rings, or other metal objects from the hands.

    b) Use tools with insulated handles.

    c) Wear rubber gloves and boots.

    d) Do not lay tools or metal parts on top of batteries.

    e) Disconnect charging source prior to connecting or disconnecting batteries terminal.

Introduction

This is a compact UPS designed for power saving bulbs. Its portable size features easy installation and high movability. It's perfect choice for diverse applications from indoor to outdoor events or activities such as camping and night markets. The on-box lamp holder can be used for directly plugging in a CFL bulb with a full range of 360-degree lighting. Besides, it can accept wide input voltage range. It's perfect to use in unstable power area. It is very easy to install at home, office or carry outside.
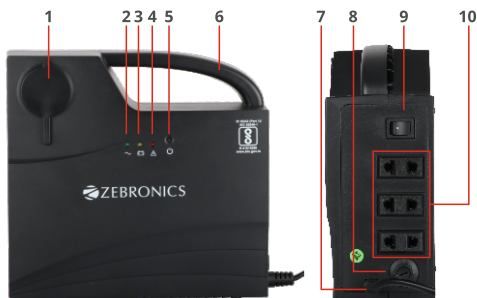
Installation
Connect to Utility and Charging

Plug in the AC input cord to the wall outlet. For the best results, suggest charging the battery at least 6 hours before initial use. The unit charges its battery while connecting to the utility.

Connect the Loads

Simply plug one bulb into lamp holder on the unit. Then, press "Power switch" on the back panel to turn on the power. If necessary, you may plug other 3 lamp holder cables into output sockets for 3 more bulbs.

Product Description

Front Panel
1. Lamp holder
2. Line mode/Charging mode indicator – Green LED
3. Battery mode indicator – Yellow LED
4. Alarm indicator – Red LED
5. Power Switch
6. Handle

Back Panel:
7. AC input
8. Input Fuse
9. Power switch for lamp holder
10. Output receptacles

Operation
Power On/Off

Once the unit has been properly installed, press the power switch to turn on theunit. The unit will work automatically in line mode or battery mode according to input utility power's status. After pressing the power switch again, the unit will be turned off.

LED Indication and Alarm

Condition	Indication
AC Mode	Green LED
Battery Mode	Yellow LED Light Continuous ON
Low Battery	Yellow LED Light On/Off every 1 second
Overload	Red LED Light On/Off every 0.5 second
Fault	Red LED Continuous ON

Features
CFL bulb holder
Auto restart while AC is recovering
Overload Indication
Short Circuit Protection
Wide Input Range
Microcontroller Based
2 pin DC Socket (3 nos)

Specifications

Capacity	(VA/W)	50VA/40W
Input	Nominal voltage	220-240 VAC
	Voltage range	100-300 VAC
	Frequency	50/60 Hz (Auto Sensing)
	Plug type	2 Pin Plug
Output	Voltage range	230VDC±10% (AC mode)
	Voltage range	160-230VDC±10 % (Battery mode)
	Transfer time	100ms
	Waveform (Batt. mode)	DC Output
	No. of output sockets	3
	Protections	Overload, Short Circuit, Over Discharge & Over Charge
Battery	Battery type	12V 7Ah x 1 no
	Charging current	1A
	Recharge time	6 h to charge 90% (after complete discharge)
Indicators	No. of LEDs	3 LED
	AC mode	Green LED
	Battery mode	Yellow LED Light Continuous ON
	Low battery	Yellow LED Light On/Off every 1 second
	Overload	Red LED Light On/Off every 0.5 second
	Fault	Red LED Continuous ON
Physical details	Dimension	209 x 82 x 195 mm (W x D x H)
	Net. weight	2.7 kg
	Package dimension	266 x 127 x 275 mm (W x D x H)
Environmental factors	Operational temperature	0-40°C
	Noise level	< 40dB

Troubleshooting

Problem	Possible Cause	Solution
The unit cannot be turned on during power failure.	Battery voltage is too low.	Charge the unit at least 6 hours.
	Battery defect.	Replace the batteries.
Utility power is normal but the unit is in battery mode.	AC input power cord is not connected well.	Check AC input power connection.
	Input fuse is blown.	Replace the input fuse.
The lamp holder is not working.	The unit is not turned on.	Press power switch to turn on the unit.
	The power switch for lamp holder is not turned on.	Turn on the power switch of lamp holder.
When power failure, back-up time is shorten	The unit is overload.	Remove some non-critical loads
	Battery voltage is too low.	Charge the unit at least 6 hours.
	Battery capacity is not full even after charge the unit for at least 8 hours.	Check the date code of the battery. If the batteries are too old, replace the batteries.
No LED display on the front panel when the utility power is normal.	Battery is not connected well.	Check the external battery cable and terminal. Make sure all the battery connections to the unit are all correct.
	Battery defect.	Replace the batteries.
Red LED is flashing for 0.5 seconds every second.	The unit is overload.	Remove some non-critical loads and turn on the unit again.

If any abnormal situations occur that are not listed above, please call service person immediately.

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