

Quick Guide of CFL UPS

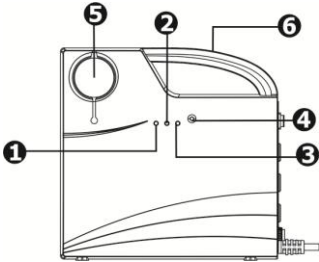
1. Introduction

This is a compact UPS designed to power saving bulbs for up to 6 hours (1 piece of 11W CFL). 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 energy saving 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 also offers flexible display methods: portable display, vertically or horizontally standing on the table and wall-mounted. Therefore, it's very easy to install at home, office or carry outside. Compared to heavy-duty inverters, it's a cost-effective solution for lighting.

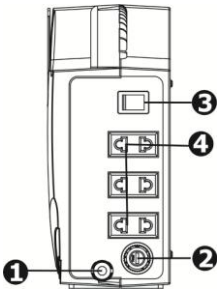
2. Product Overview

Front View:



- ❶ Line mode/Charging mode indicator – Green LED
- ❷ Battery mode indicator – Yellow LED
- ❸ Alarm indicator – Red LED
- ❹ Power Switch
- ❺ Lamp holder
- ❻ Handle

Back View:



(All status indicators, please check LED Indicators section for the details)

- ❶ AC input
- ❷ Input Fuse
- ❸ Power switch for lamp holder
- ❹ Output receptacles

3. Important Safety Warning (Before using the unit, please read all instructions and cautionary markings on the unit, this manual and the batteries.)

CAUTION! Do not plug the UPS input into its own output.

CAUTION! Do not allow liquids or any external object to enter the UPS. Do not place beverages or any other liquid-containing vessels on or near the unit.

CAUTION! 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.

CAUTION! This unit contains more than one live circuit (batteries & AC line). Power may be

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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 of the unit. Turning off the unit will not reduce this risk.

CAUTION! Servicing of batteries should be performed or supervised by personnel knowledgeable of batteries and the required precautions. Keep unauthorized personnel away from batteries.

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

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

CAUTION! Do not dispose of batteries in a fire. The battery may explode. Do not open or mutilate the battery or batteries. Released electrolyte is harmful to the skin and eyes.

CAUTION! A battery can present a risk of electric shock and high short circuit current. The following precaution should be observed before replacing batteries:

- 1) Remove watches, rings, or other metal objects.
- 2) Use tools with insulated handles.
- 3) Wear rubber gloves and boots.
- 4) Do not lay tools or metal parts on top of batteries.
- 5) Disconnect charging source prior to connecting or disconnecting batteries terminal

4. Installation

NOTE: Before installation, please inspect the unit. Be sure that nothing inside the package is damaged.

Placement and Storage Conditions

Install the UPS in a protected area that is free of excessive dust and has adequate air flow. DO NOT operate the UPS where the temperature and humidity is outside the specific limits.

Mounting the Unit

The unit can be mounted to a wall surface. Please follow below steps:

Step 1. Turn off the unit before mounting.

Step 2. Select an appropriate mounting location.

Step 3: Use a horizontal line and the length of the line must be 173 mm and mark the two ends on the wall. (see chart 1)

Step 4: Drill two marks by screws.

Step 5: Mount the unit by positioning the key-hole slots over the mounting screws. (see chart 2)

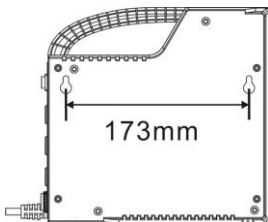


Chart 1

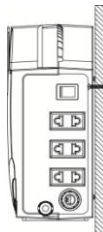


Chart 2

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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.

5. Operation

Power On/Off

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

LED Indicators

There are three indicators (Green/Red/Yellow) on the unit.

Status		Indicator
Line mode	Bulk charging mode	Green LED flashing every 2 seconds
	Floating mode	Green LED on
Off charging mode	Bulk charging mode	Green LED rapidly flashing every 0.5 second
	Floating mode	Green LED staying on for 4 seconds and off for one second
Battery Mode	> 11.5 VDC	Yellow LED on
	≤ 11.5VDC	Yellow LED flashing every second
Fault mode (output short circuited)		Red LED on
Overload		Red LED rapidly flashing every 0.5 second
Overcharge		Red LED staying on for one second and off for 4 seconds

6. Specifications

Model	CFL UPS
RATED POWER	50 VA / 40 W
INPUT	
Nominal Voltage	220 VAC
Voltage Range	100 - 300 VAC
OUTPUT	
Voltage Regulation (Batt. Mode)	160 – 230 VDC ±10%
Waveform	DC Output
BATTERY	
Type & Number	12 V/7 AH x 1
Battery Voltage	12VDC

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Model		CFL UPS
Floating Voltage		13.7V \pm 1.5%
Charging Current		1A at nominal voltage
Backup Time	11W CFL x 1	\geq 6 hours
	11W CFL x 2	\geq 3 hours
	11W CFL x 3	\geq 2 hours
	11W CFL x 4	\geq 1 hour
Charging Time		6 hours recover to 90% capacity
PHYSICAL		
Dimension (DxWxH) mm		209 x 87 x 200 mm
Net Weight (kgs)		2.7

7. Trouble Shooting

Use the table below to solve minor problems.

Problem	Possible Cause	Solutions
The unit can not be turned on during power failure.	Battery voltage is too low.	Charge the unit at least 4 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 fails, the backup time is shorten.	The unit is overload.	Remove some non-critical loads.
	Battery voltage is too low.	Charge the unit at least 4 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 there is any abnormal situations occur, which doesn't list above, please call the service people immediately for professional examine.