

USER MANUAL For Central Battery Systems

CCU12-30 Series



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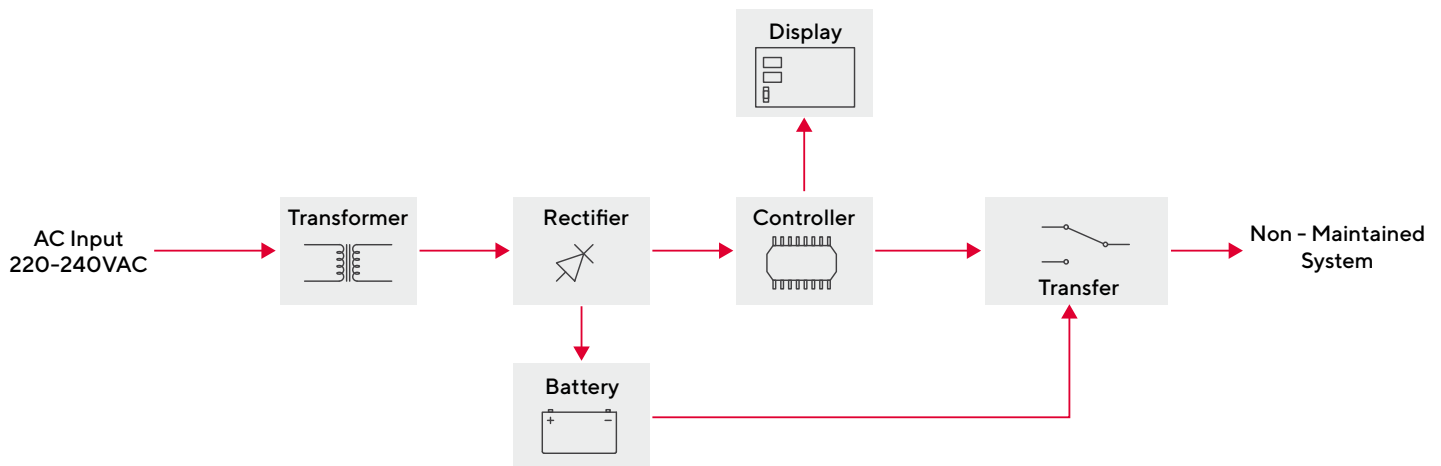
Part 1

Overview Central Battery Systems

1.1 Features

Central Battery Systems by CCU 12V Series or the central control unit is used to detect any abnormalities of the main power distribution system. In case of error or emergency, the unit is designed to allow the emergency lighting system to bear large loads or larger loads than that the automatic emergency light (complete unit) can. The 12 VDC unit is compatible with halogen lamp or MR16 LED lamp. The unit installation and usage are centrally controlled so that it supplies power to the lamp installed.

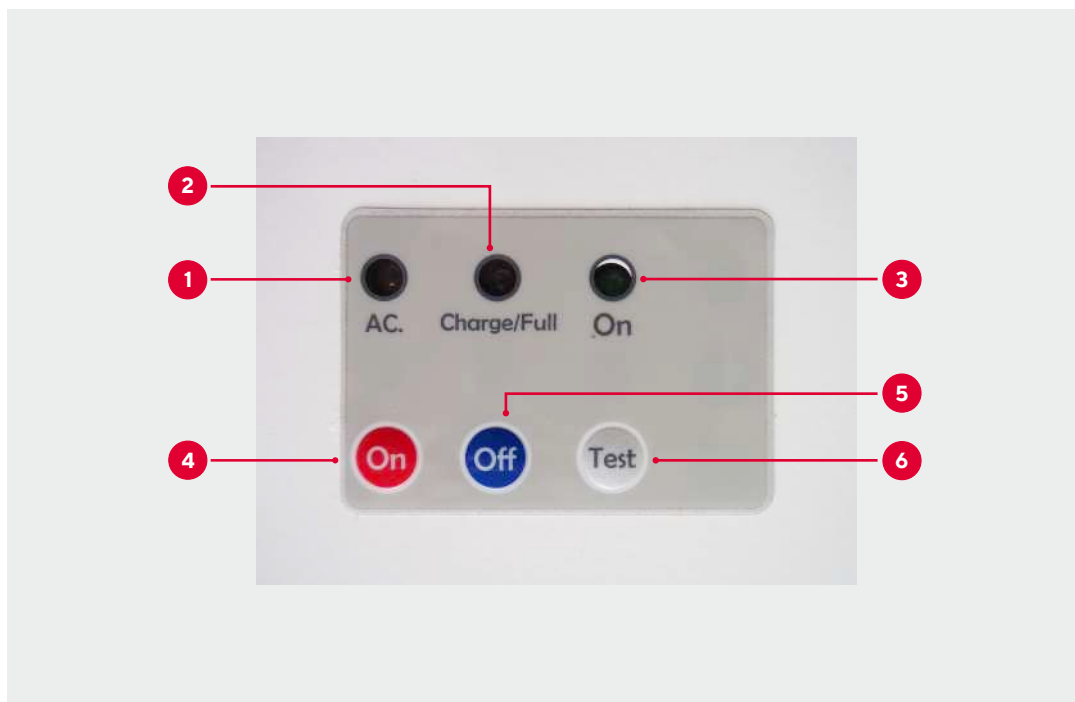
Principle of Operation – Central Battery Systems: CCU12-30



1.2 Technical specifications

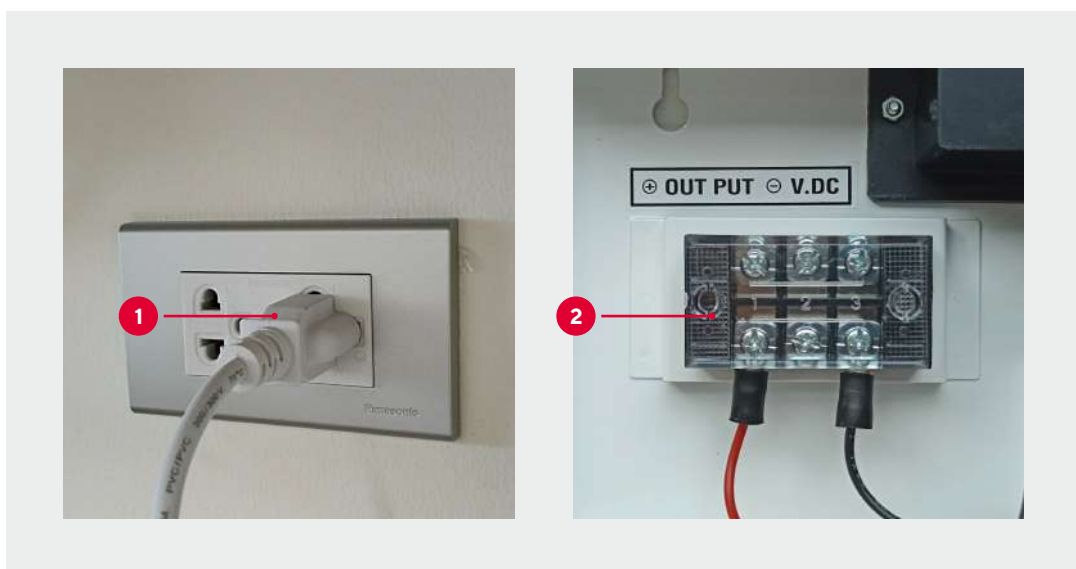
Model		CCU12-30
Rated Capacity (Wattage)		30
Mode of Operations		Non - Maintained
Input	Voltage	220 - 240VAC
	Frequency	50Hz
Output	Voltage	12VDC
Terminal Output		1 Output
Maximum Load (Wattage)		30
Battery Type		Sealed Lead - Acid Battery
Battery Rated Voltage		12V
Protections		<ul style="list-style-type: none"> - Overload & Short circuit - Battery Low voltage cut-off - AC Input Low Voltage Protections
Operating Temperature		10°C to 50°C
Weight (kg)		4.37

1.3 Status Indicators



No.	Symbol	Description
1	LED AC.	Indicates input status
2	LED Charge/Full	Indicates charging status
3	LED On	Indicates ready for use status
4	Switch On	Press to turn on the device
5	Switch Off	Press to turn off the device
6	Switch Test	Press to test the unit availability (during normal circumstance)

1.4 Electrical Connector



No.	Symbol	Description
1	Plug AC220V	For supplying AC220V power into the unit
2	OUTPUT 12V	Terminal for connecting the load power output

Part 2

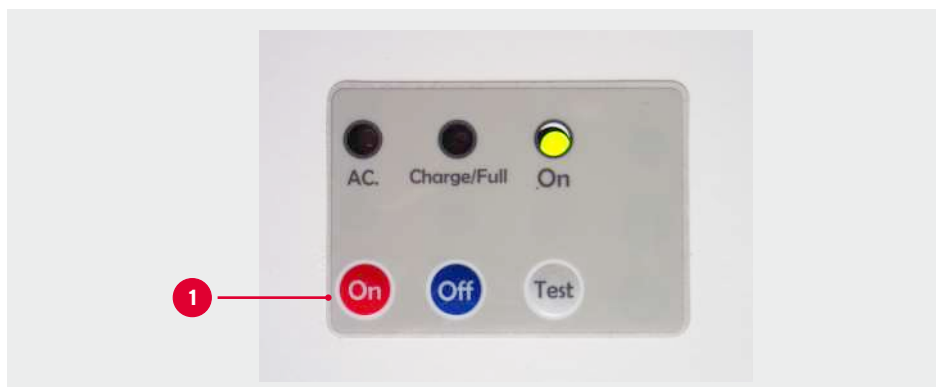
Installation and Operation

2.1 Basic Installation and Operation Steps

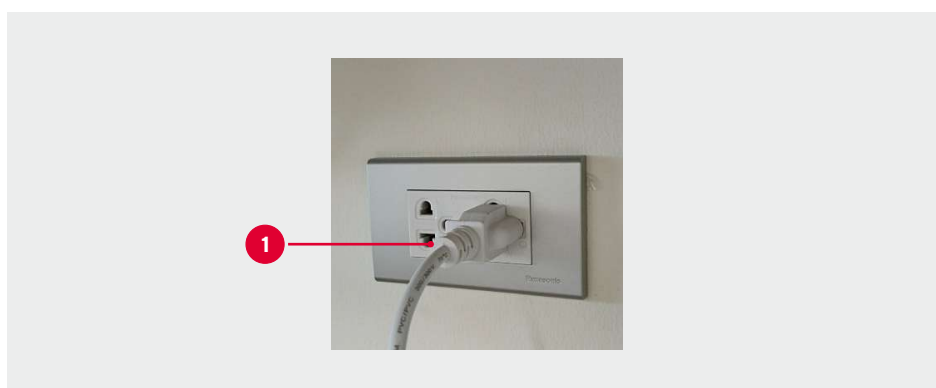
- 1.) Install the emergency lighting unit securely on the wall in the desired location for emergency lighting. Inspect the installation to ensure it is properly secured to prevent accidents such as falling.
- 2.) Check whether the load wiring is in a usable condition. If so, connect it to the Terminal Output **1** and fasten securely to prevent sparking that could cause damage.



- 3.) Press the **"ON" switch** **1** – the device will activate within approximately 3 seconds. The system will operate and the emergency lights and status LED will indicate "ON."



- 4.) Plug the power cord of the emergency light unit into an AC220V 50Hz outlet. **1**



5.) Once AC220V is supplied to the unit, status indicators will display as follows:

5.1 LED AC. Power ON: Indicates AC voltage is present.

5.2 LED CHARGE ON: Indicates charging mode and battery is being charged.

5.3 LED Full OFF: Indicates battery is not yet fully charged.

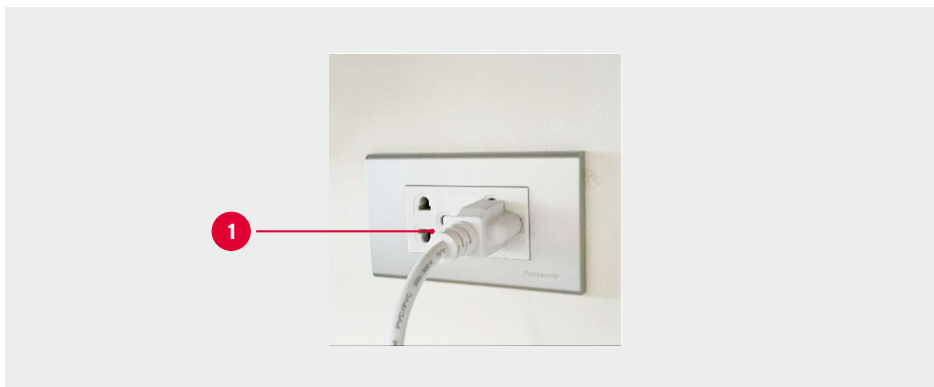


2.2 Initial Device Function Testing

1.) Press the TEST switch **1** on the unit. The emergency light will illuminate for about 5 seconds, then automatically turn off – this simulates an outage to test the system.



2.) Unplug the unit's power cord from the AC220V 50Hz outlet. **1** The emergency light will turn ON within about 5 seconds, and will automatically turn OFF after power is restored.



3.) When power goes out, the emergency light will automatically illuminate and then shut off once power returns, switching back to AC from battery automatically.

Note: If the emergency light automatically turns on and you wish to turn it off to conserve energy, you can turn it off by pressing the OFF switch on the device.

Part 3

Maintenance

3.1 Device Maintenance

- 1.) Install the emergency lighting control unit indoors, protected from sunlight and rain.
- 2.) If the device is not used for a long time, store it in a dry room around 25°C.
Every 3 months, recharge the battery to maintain performance.
- 3.) Do not exceed the load capacity specified for the unit.
- 4.) Always inspect the load wiring before operation.

3.2 Initial Trouble Shooting

Cause	Problem	What to do
- Power not getting to the unit after plugging in. The LED AC light does not turn on.	- The power socket might not have any power. - The plug or socket is loose. - The AC.220V fuse is blown.	- Check the 220VAC power supply. - Check the plug and socket. - Contact customer service.
- Emergency light does not turn on after the power went out.	- The unit is not plugged in. - The battery terminals are not connected. - The lamp is faulty. - The load wiring is loose. - The DC fuse has blown.	- Check the unit's power socket. - Connect the battery terminals. - Contact our customer support department. - Check the load wiring. - Contact our customer support department.
- Emergency light only turns on for a short time after the power went out.	- The battery is not fully charged. - The battery has degraded.	- Charge the battery for at least 24 hours, then retest the operation. - Contact customer service to replace the battery.

3.3 Important Note on Using the Unit

- 1.) Always review the product specifications and instructions before each use.
- 2.) Install the unit in a well-ventilated area.
- 3.) Do not connect batteries with reversed polarity.
- 4.) Inspect the load wiring every time before installation and use.
- 5.) Do not connect wiring or loads that are not in good working condition.
- 6.) The system is intended for use only with emergency lighting.
Do not connect other equipment not approved by the manufacturer or designer.
- 7.) For battery storage: Keep the battery in a room at 25°C and recharge it once a month to maintain voltage and lifespan.

Part 4

Terms for Warranty and Service

4.1 Terms for Warranty and Service

1. The Warranty will only be covered if the customer fills in the “warranty registration form” and mail the return part back to the company within 7 days from the day of purchase. If this is not carried out the warranty will be considered void.
2. The warranty only covers the unit’s internal parts. The conditions and durations for the warranty of each part is as specified and the duration of the warranty is calculated from the date of purchase.
3. Please show your warranty card every time you contact our service center or the dealer you purchased the product from.
4. Products that fall into the following category are considered not covered by the warranty.
 - 4.1 The product was used in a way not specified in the manual.
 - 4.2 The product was used with accessories not meeting the required specifications specified in the manual.
 - 4.3 The product seems to have been damaged from being dropped or from strong impact, for example, the parts are loose, dented, scrapped or misshapen.
 - 4.4 The product has been repaired or modified by personnel not authorized by our company.
 - 4.5 The Warranty Void sticker is torn or removed.
 - 4.6 The product is damaged from careless use or incorrect maintenance, for example, the battery is swollen from overcharging, quick charging was used on the battery, the battery terminals have been short-circuited, the unit was used until the battery was completely discharged and not recharged immediately, the product was stored for long periods until the Battery Checker warning activates and still it is not plugged-in to charge or taking the battery to normal temperature conditions and not recharging it every 1 month.
 - 4.7 The product was stored in an unsuitable environment, for example, a location with moisture or water vapor.
 - 4.8 The product was supplied with a faulty AC power supply such as electrical overvoltage, electrical current surges, or lightning strikes entering the AC power line.
 - 4.9 Damages from natural causes such as fire, being summered in fluids, humidity, chemicals or force majeure.
 - 4.10 Damages from insects or animals.

Note : Please read the manual carefully before installation and operation to understand how to properly operate the unit.

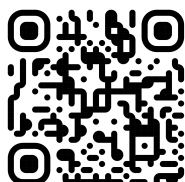
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