



**SUNNY**  
LIGHT FOR LIFE

# USER MANUAL

Central Battery Systems | CCU 12V-250 To 470 And 24V-170 To 360 Series

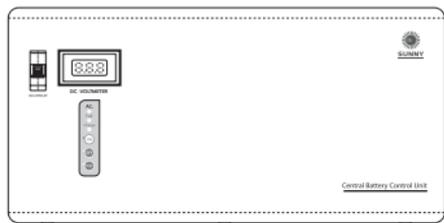
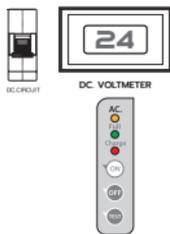


Figure C



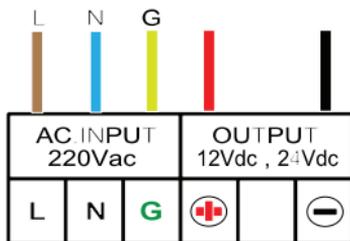
- DC CIRCUIT ▶ Prevent battery short-circuits and overload.
- DC VOLTMETER ▶ Indicating the battery voltage.
- LED AC. ▶ Indicating input status.
- LED Full ▶ Indicating fully charged status.
- LED Charge ▶ Indicating charger status.
- LED ON ▶ To turn on the light (while the unit is not plugged in).
- Switch OFF ▶ To turn off the light (while the unit is not plugged in).
- Switch TEST ▶ To test the unit availability (during normal circumstance).

## Indication

## Specification

1. Providing emergency lighting only when the power went out.
2. LED lamp or Halogen lamp with the DC power voltage of 12 volts or 24 volts.
3. The fully sealed "SUNNY" Sealed Lead Acid battery is totally maintenance-free throughout its operational life.
4. Controlling charging with automatic solid-state system and constant voltage and limit current with accuracy and efficiency.
5. Charging Time for 10-15 hours.

## How to correctly connect the INPUT 220Vac. and OUTPUT 12Vdc, 24Vdc



## Installation and Operation

1. Check if the power socket is providing power before moving on to the next step.
2. Check that the load electrical wire is in good working order. If so, connect it to the Terminal Output and screw tightly to prevent any electrical sparks that could cause fire.
3. connecting to load wiring to the output terminal inside the unit (check for any short-circuits before connecting)
4. Set the DC.Circuit Breaker to ON. The DC Volt Meter should display the Voltage of the battery and the connected lamps should illuminate.
5. Connect the 220 Volt Line into the circuit box.
6. After installation and a 220Vac power supply is provided the unit should show the following indicators.
  - The LED AC Power will turn on to indicate the unit is receiving a 220Vac power supply.
  - The LED CHARGE will show if the unit's battery is charging.
  - The LED Full will show once the battery is fully charged.
  - The connected lamps should turn off automatically.
7. Testing the unit's operation.
  - Pressing the TEST switch on the unit should turn on the emergency light.
  - Release the TEST switch and the light should turn back off.
  - Turn off the Main 220 Volt Line, the emergency lights should turn on. If the Main 220 Volt Line is turned on the emergency light should turn off automatically.
8. During power outages the emergency light should automatically turn on and will turn on automatically and start charging the battery once power is restored.

## Important Note on Using the Unit

1. The unit should be installed indoors away from direct sunlight and rain or moisture.
2. The unit should be stored in temperatures under 25 Degree Celsius and the battery should be charged every 3 months to maintain its operational life.
3. Do not overload the unit with more power than it is designed for.
4. Check the power load before installing the unit.

## Initial Trouble Shooting

Cause	Problem	What to do
<ul style="list-style-type: none"><li>- Power not getting to the unit after plugging in.</li><li>- The LED AC light does not turn on.</li></ul>	<ul style="list-style-type: none"><li>- The power socket might not have any power.</li><li>- The plug or socket is loose.</li><li>- The AC.220V fuse is blown.</li></ul>	<ul style="list-style-type: none"><li>- Check the 220VAC power supply.</li><li>- Check the plug and socket.</li><li>- Contact customer service.</li></ul>
<ul style="list-style-type: none"><li>- Emergency light does not turn on after the power went out.</li></ul>	<ul style="list-style-type: none"><li>- The unit is not plugged in.</li><li>- The battery terminals are not connected.</li><li>- The lamp is faulty.</li><li>- The load wiring is loose.</li><li>- The DC fuse has blown.</li></ul>	<ul style="list-style-type: none"><li>- Check the unit's power socket.</li><li>- Connect the battery terminals.</li><li>- Contact our customer support department.</li><li>- Check the load wiring.</li><li>- Contact our customer support department.</li></ul>
<ul style="list-style-type: none"><li>- Emergency light only turns on for a short time after the power went out.</li></ul>	<ul style="list-style-type: none"><li>- The battery is not fully charged.</li><li>- The battery has degraded.</li></ul>	<ul style="list-style-type: none"><li>- Fully charge the battery.</li><li>- Contact customer service to replace the battery.</li></ul>

## Terms for Warranty and Service

1. The product will only be under warranty if the customer fills in the “warranty card” and return the “return part” to the company within 7 days of purchasing the product. If this is not done within the specified time then the warranty will be considered void.
2. The warranty only covers the unit’s internal parts for the duration specified by the company counting from the date of purchase.
3. Please show the warranty card every time when contacting our service department or the dealer you purchased the unit from.
4. The warranty will be considered void in the following cases.
  - The unit has been used outside of its intended use specified in the manual.
  - The unit has been used with equipment that does not meet the specifications specified within the manual.
  - The unit has been damaged from impact, for example parts are dented, scratched missing or distorted.
  - The unit has been modified or repaired by people not officially certified by our company.
  - The Sticker Warranty Void has been removed or torn.
  - The unit is damaged from negligence or incompetent use, for example, the battery is swollen, the batter has been overcharged, the battery has been damaged from quick charging, the battery has been short-circuited, the battery’s charged has been completely drained.
  - The unit has been stored improperly, for example, it was exposed to moisture causing rust and damage to the internal circuitry.
  - Damaged was caused by a malfunction in the AC power supply.
  - Damage from natural disaster such as fire, moisture, submersion in liquids, chemical damage or from unavoidable circumstances.
  - Damage from animals or insects.

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

For any further questions about your product please feel free to contact SUNNY’s customer service department.

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