



Technical Specifications

Mode of Operation	Non-Maintained
Operating Temperature	10-50°C
Input Voltage	220-240 VAC / 50Hz
Output Voltage	12VDC
Load Capacity	470W
Battery Type / Capacity	Sealed Lead-Acid Maintained Free 12V-100Ah
Protection Features	- AC, DC Fuse - AC Under Voltage Protection - Battery Low Voltage Cut-Off
Testing Systems	- Auto Test - Manual Test or Remote Test
Charging Method	3 Steps Charger System
Charging Period	10-15 Hrs
Backup Time	2.0 Hrs
Housing	Electro-galvanized steel sheet 1.0mm. thick with epoxy powder coating
Dimensions (L x W x H)	500 x 250 x 300 mm
Weight	40.00 Kg
Degree of Protection	IP20
Mounting	Wall Surface
Accessory	Infrared Remote Test (RT-S3)
Standards / Compliance	- TIS.1955-2551 - ISO9001 - CE - UL

Indicators



LED AC	► Indicates that the unit is receiving a power supply
LED Charge	► Indicating charging status.
LED On	► Indicates that the unit is receiving a power
LED Test	► Indicates that the unit is in test mode.
LED Fail	► Indicates that the unit is a problem with the battery
LED Auto Test	► Indicates automatic testing status.
Switch Off	► Press to turn off the lamp and the system of the unit (while the power is off or the unit is not plugged in)
Switch Test	► Press to test the device's availability (during normal circumstance and the unit is plugged in)
IR receiver	► Infrared signal receiver

Product Overview

Central Battery Systems CCU 12V Series is a central emergency lighting control unit for a 12VDC system, designed to supply power to emergency lighting lamps when the main power fails. The system automatically controls lamp operation to ensure continuous illumination, helping improve evacuation safety inside buildings.

The unit is equipped with a **Sealed Lead-Acid Maintenance Free (SLA)** battery, together with a **3-Step Charger System** and a built-in monitoring system for both voltage and battery status, enhancing safety and extending the service life of the system.

In addition, the **CCU 12V Series** comes with **Auto Test** and **Remote Test** functions for convenient inspection and maintenance, reducing the burden of regular maintenance and increasing operational reliability. The enclosure is made of **electro-galvanized steel** coated with **epoxy powder coating**, providing strength and corrosion resistance. It is suitable for indoor installation and professional-grade emergency lighting systems.

Features

Battery

- Use Sealed Lead-Acid Maintained Free (SLA) 12V-100Ah, backup power for 2 hours.

Functions

- Auto Test schedule: 1 month every 60 seconds, 1 year every 120 minutes (according to standard EIT.021004-22), activate and deactivate functions with a remote control.
- The operation can be tested manually (Manual Test).
- A 5-second, 30-minute or 60-minute self-test can be performed on the unit using the remote

Circuit Systems

- Controlled by an 8-bit microcontroller circuit
- Under Voltage Operation System

Protection Features

- AC and DC fuse to prevent current overload
- Surge Protection
- IP20 dust and water resistant

Features to Extend Battery Life

- An innovative 3 Steps Charger System
- A Low Voltage Cut-Off to prevent the battery from draining completely

Warning Systems

- Alerts when the automatic battery test (Auto Test) detects that the central battery emergency backup system provides less than 120 minutes of lighting backup (Battery Fail).
- Indicate that there is a problem charging the battery (Charging Fail).

Dimensions (mm)

