

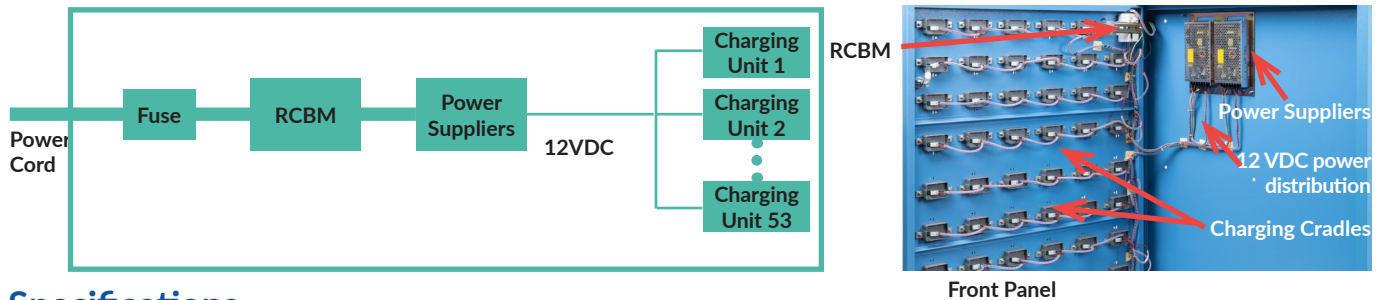
Installation and Maintenance Guide **ROOBUCK**

CB53E Charging Bank

The CB53E charges up to 53 cordless cap lamps. It is suitable for KH4E-Ex, KC4E-Ex, RN3U, RN4UB, IoT Cap Lamp Range, Belt Tags, Portable Tags.

The CB53E is powered from the 240 VAC mains. The power supply generates a 12 VDC. Thus, only extra low voltage is distributed to the charging cradles thereby guaranteeing safety.

A Residual and Fault Current Limiting Circuit Breaker (RCBM) is installed immediately after the power fuse for additional safety of personnel.



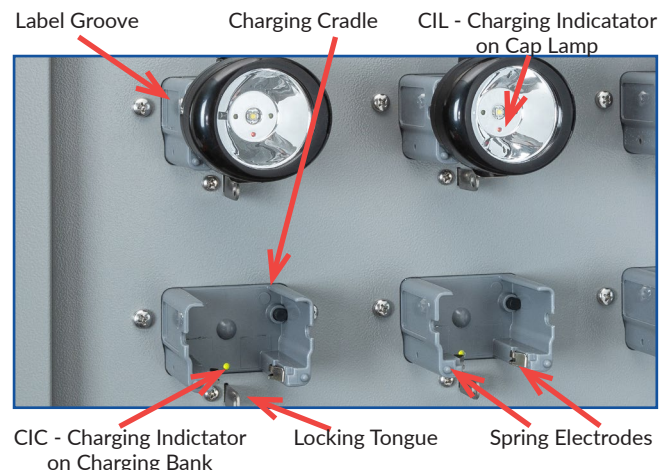
Specifications

Input	240 VAC
Output	6 VDC/500 mA

Dimensions	84 x 13 x 110 cm
Weight	31 kg

Installation

- Carefully remove the CB53E from the packaging
- Mount it to the wall using the supplied mounting kit or place on the ground using the supplied foot pads.
- Connect the power cable to Charging Bank.
- Connect to 240 VAC mains.
- CB53E Charging Bank opens from the front and is locked for security. Keep key in a safe place.
- For security, padlock the Cap Lamp to the Charging Bank using the locking tongue.
- Attach identification labels using the label groove on each charging cradle.
- Test the RCBM by pressing the test button



Charging Procedure

There is a charging indicator on the cap lamp and a charging indicator near each cradle on the charging bank. They indicate when the cap lamp is charging and when it is fully charged. This process does not need monitoring as the automatic over-load protection function will cut off the charging circuit when the cap lamp is fully charged.

Charging Indicator on Lamp (CIL) is always **Red** and indicates that the cap lamp is charging.

Charging Indicator on Charging Bank (CIC) is located near the locking pin either above or below the charging cradles. This indicates the charging status. **Green**, indicates no or small charging current. **Red** indicates a large charging current.

1. Turn on the power switch - CIC is **Green** indicating the power is on but no cap lamps are attached.
2. Turn off the cap lamp before putting it into the charging bank to charge.
3. Put the cap lamp into the charging cradle. You will hear a click.
4. CIL is **Red**. If not, check the connection. Try taking it out and putting it in again. If that does not work, check the charging electrodes on the cap lamp and the charging cradles. See maintenance on the next page.
5. If the cap lamp's battery is low, CIC is **Red**, indicating the cap lamp is actively charging.
6. When the battery is almost full, CIC alternates between **Red** and **Green**.
7. Cap lamps are fully charged when the CIC stays **Green**.
IoT Devices are fully charged when the CIC is **Green**. The CIC will then flash **Red** as the IoT devices search for a connection to the MTTQ or the internet.

Charging Cradle Maintenance

- Your charging bank needs to be maintained to allow for optional charging of your Roobuck cordless cap lamps. Please keep the electrodes on the charging bank and cordless cap lamp clean and dust free. Brush them with a nylon brush with or without electronic cleaning solvent, whenever electrode is dirty.
- The charging cradles will to be subject to wear and tear and will need to be replaced regularly. Depending on use, this may be every two or so years. If the lamp is not a tight fit when clicking into the charging cradle, it may be time to change them. This is a replaceable part. Part Code is KYCD-11. Email PO to info@roobuck.com.au.
- **Do not store cordless cap lamps on the charging bank if it is turned on. Either turn off the charging bank or store the unused cordless cap lamps elsewhere.**

Warning

If your cordless cap lamps are not charging properly, check the electrodes on the cordless cap lamp and charging bank.

Indicators that the cordless cap lamps are not charging correctly:

- The CIL is not **Red** when charging.
- The CIC does not change from **Red** to **Green** to indicate the cap lamp is charged.

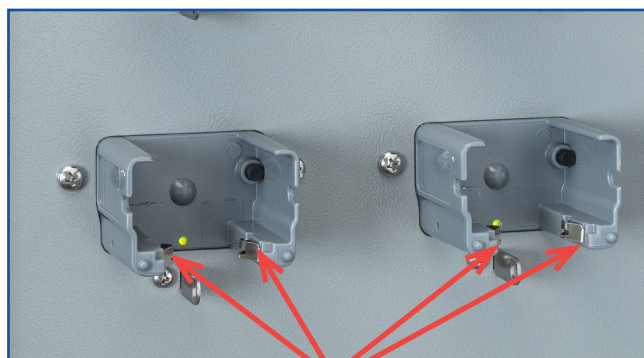
Next Steps

Clean the Spring Electrodes on the charging bank and the charging electrodes on the cap lamp with the brush. If there is a build up of dirt use an electronic cleaning solvent.

Electrodes



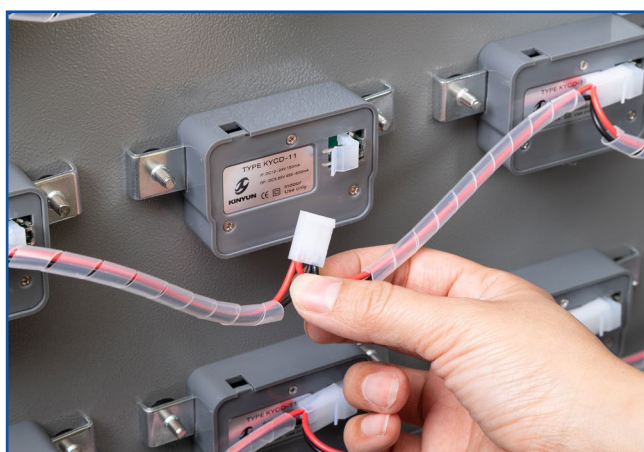
Charging Electrodes
on Cap Lamp



Spring Electrodes
on Charging Bank

Replacing Charging Cradles

1. Turn the power off
2. Use the supplied key to unlock the front door
3. Unplug the power connectors
4. Remove the screw of either side of the cradle cup
5. Take off the supporting plate
6. Place new cradle cup in the position
7. Replace the supporting plate and screws
8. Check the cradle cup is tight enough
9. Plug the power connector into the charging cradle. Ensure the power connector is running in the correct direction
10. Close and lock the front door



Unplugging the power connectors

