

INSTALLATION AND OPERATING INSTRUCTIONS

IMPORTANT SAFEGUARDS!!!

SAVE THESE INSTRUCTIONS!!!

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

When using electrical equipment, basic safety precautions should always be followed including the following:

• **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**

- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations, if applicable.
- Do not mount near gas or electrical heaters.
- Do not let power supply cords touch hot surfaces.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.
- Allow battery to charge for 24 hours before first use.

SAVE THESE INSTRUCTIONS!

Remote Power Supply

1. Place power supply assembly inside housing and note available knock-outs for wiring clearance. Remove suitable K.O's in areas with clearance for wiring and connectors. Use framing or brackets to install Masonry Box housing as shown, in a location convenient for access to battery and power supply. Align top edge flange flush with finished panel surface. (Fig 1)
2. INPUT WIRING: Connect BLACK/WHITE AC input wiring to building supply with wire nuts, and connect GROUND to Housing with Screw mount. (Fig 2)
3. SECURITY LIGHTING SWITCH CONTROL (OPTION -SW).
4. See Table 1 to estimate wire size required based on maximum wiring length for low voltage output wiring to the fixture.
5. Connect the BATTERY plug: NOTE If AC power is OFF, the fixture will turn ON under battery power. To minimize battery discharge, turn AC power ON after fixture is connected, or disconnect battery.

OPERATION

Press the test button, the Remote head will turn on and the LED indicator will turn off.
Release the test switch, LED indicator will turn on and the Remote head will turn off.

TABLE 1
MAXIMUM WIRING LENGTH
FROM RPS TO FIXTURE

WIRING SIZE AWG	LENGTH(FT)
	CY-UDC
#18	20
#16	26

J-Box Mount

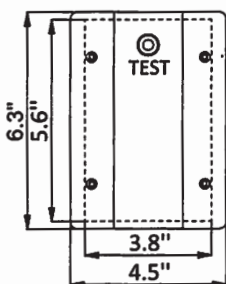
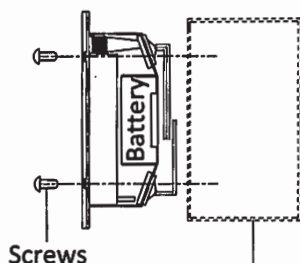


Fig 1



Standard masonry box 3-gang
Typical stock model
RACO #692/#697/#7846
(not provided)

Wiring diagram for Remote head

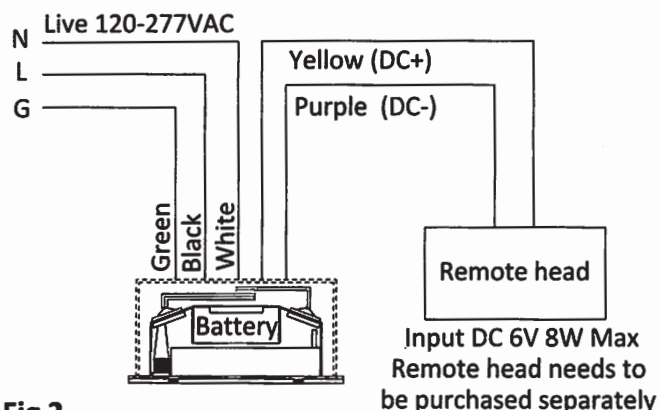


Fig 2

BATTERY STOCK AND RECHARGE GUIDELINE

Emergency fixtures use maintenance free batteries. When a fixture is on the shelf (stored) before installation, all battery types need regular discharge and recharge to avoid battery deterioration. Deterioration can result in permanent capacity loss or complete Battery failure, emergency fixture manufacturer can not provide quality warranty for battery if do not operate proper maintenance before installation.

The recharge period is always taken from the Manufacture Date written on the battery surface

Lead-Acid battery:

Shelf life = Recharge Required = 3 months.

Recharge should involve full discharge and recharge to at least 50% rated capacity

Ni-Cad and Ni-MH battery:

Shelf life = Recharge Required = 9 months.

Recharge should involve full discharge and recharge to at least 50% rated capacity

LiFePO4 battery:

Shelf life = Battery Charge Required = 12 months

Battery should recharge to at least 50% rated capacity

Battery discharge and recharge can be operate by emergency fixture itself, also can operate by other professional discharge and recharge equipment, below instruction for reference.

Battery type	Operate by EM fixture	Operate by other equipment
Lead-Acid battery (Rated 6V battery)	Discharge then Charging battery around 12 hours	Discharge 100% rated capacity, Charge current 0.3A max, constant voltage 7.2-7.35V*12 hours
Ni-Cad and Ni-MH battery	Discharge then Charging battery around 12 hours	Discharge current 0.2CA to 1V per cell cut off. Charge current 0.1C*12 hours.
LiFePO4 battery	Charging battery around 12 hours	Charge current 0.2CA Limit battery voltage 3.365V per cell

Emergency fixture in stock

When a fixture is on the shelf (stored) before installation, battery must not connect to PCBA to avoid self-discharge, battery must keep disconnect status before installation.

If battery connect to PCBA without charge battery for over 10 days, battery will be deteriorate because of battery self-discharge properties, and cannot recover to original capacity.

BATTERY SHIPPING

We advise that, when shipping batteries (of any type) over long distances, where the battery may be subjected to high temperatures for long periods, it is best practice to not charge the battery above 60% capacity.

This practice helps to minimise permanent damage to the battery.

BATTERY SAFETY INFORMATION

Proposed long term storage temperature in 15 °C ~25°C, humidity in 45-85% for all type battery.

Lead-Acid battery Handling and storage

Store batteries in cool, dry, well-ventilated areas with impervious surfaces and adequate containment in the event of spills.

Batteries should also be stored under roof for protection against adverse weather conditions.

Separate from incompatible materials, Store and handle only in areas with adequate water supply and spill control. Avoid damage to containers. Keep away from fire, sparks, and heat.

Ni-cad battery/ Ni-MH battery /LiFePO4 battery

Do not damage or remove the external tube.

Never throw out cells in a fire or expose to high temperature.

Do not soak cells in water and seawater.

Do not expose to strong oxidizers.

Do not give a strong mechanical shock or throw down.

Never disassemble modify or deform.

Do not connect the positive terminal to the negative terminal with electrically conductive material.

Do not short or install with incorrect polarity.

Avoid direct sunlight high temperature, high humidity and the places where it is exposed to the static electricity.