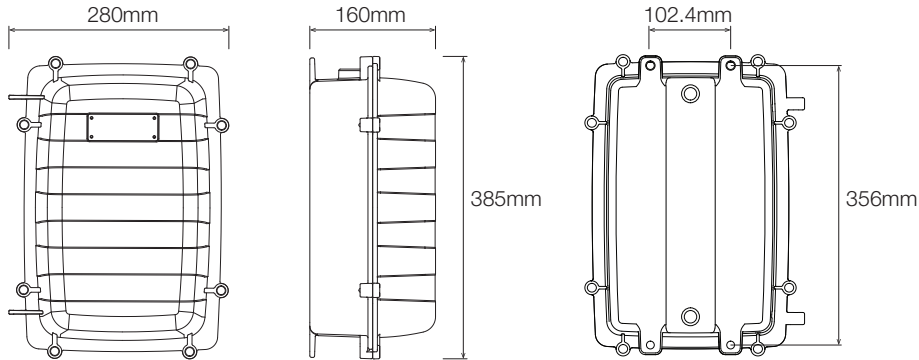


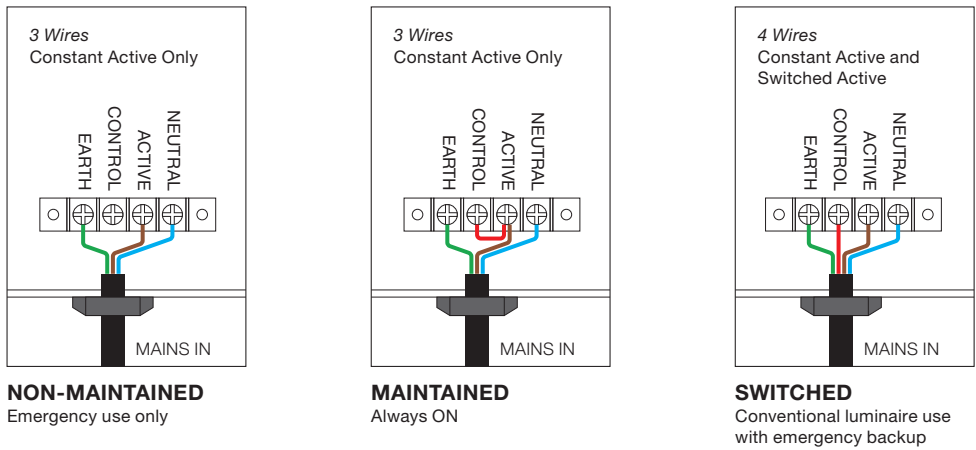
Emergency Power Pack (EMP)



INSTALLATION INSTRUCTIONS

Step 1

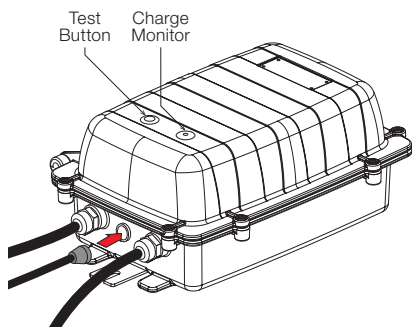
Open up EMP unit and wire according to diagram below.



ACTIVE	CONTROL	OPERATION STATE	DESCRIPTION
ON	OFF	Normal (Non-Maintained)	Luminaire turned OFF. EMP Charge Monitor will indicate mains presence with red LED on.
ON	ON	Normal (Maintained)	Luminaire switched ON at full brightness (Maintained Operation)
OFF	OFF	Emergency Operation	Emergency state, where power disappears from the active terminal. Luminaire will be switched ON, powered by batteries. EMP Charge Monitor will turn off.

Step 2

Turn the Unit Isolation Switch to the "ON" position (inside the enclosure). Close the lid and secure. Plug luminaire connector into the EMP unit.



Testing Connection

When unit is first connected, the Emergency battery will commence charging.

During mains presence the unit Charge Monitor will illuminate red.

To test the connection, press the Test Button. When pressed, the Charge Monitor will turn off and the luminaire will illuminate.

If luminaire does not illuminate when button is pressed, please check the wiring.

If Charge Monitor is not illuminated while Test Button is not pressed and mains is present, please check if the Unit Isolation Switch is not in the "OFF" position. If Unit Isolation Switch is in the "ON" position, please check the wiring.

UNIT PARAMETERS

Battery Details

Unit only designed to operate using the following VRLA batteries:

MANUFACTURER	MODEL	CAPACITY
Panasonic	LC-R127R2P1	12V, 7.2Ah/20HR
Fullriver	HGL7.2-12	12V, 7.2Ah/20HR

Commissioning Test

Before the batteries can operate at full capacity the EMP should be cycled 2-3 times.

1 cycle includes a 16 hour charge and a complete discharge.

After cycling the EMP will provide emergency light operation for a minimum of 2 hours.

Battery Test

Battery test is to be conducted on the EMP unit after the unit has been on charge for minimum 16 hours and the emergency mode was not engaged.

Voltage reading is to be taken between the positive terminal on the top battery (red wire connection) and the negative terminal on the bottom battery (black wire connection).

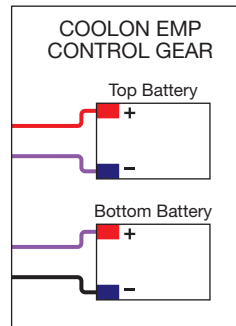
With the test probe placed across the terminals, press the "TEST BUTTON" on the lid of the enclosure for 5 seconds to simulate mains fail, and then take the voltage reading.

If voltage reading is below 23.5V DC then both batteries must be replaced. See battery replacement procedure.

Battery Replacement Procedure

1. Isolate mains supply to the EMP
2. Switch isolation switch into "OFF" position
3. Disconnect the spade terminals from the top battery
NOTE: Do not use any conductive material to remove the terminal connector
4. Remove the top battery by unscrewing the top battery fixing bracket
5. Remove the bottom battery by unscrewing the bottom battery fixing bracket
6. Disconnect the spade terminals from the bottom battery
7. Follow the above steps in reverse order to fit new batteries
NOTE: Only used batteries specified above

Battery wiring diagram is provided on the right



CAUTION

- Emergency pack is to be operated upright
- Do not short circuit the battery terminals
- Do not incinerate
- Flush with water if contact is made with electrolyte (Acid)

Cable Gland Replacement

User replaceable cable glands (thread will suit M20 x 1.5mm)

Cable glands secured using Loctite 222.

We recommend Loctite 277 for a permanent bond.

