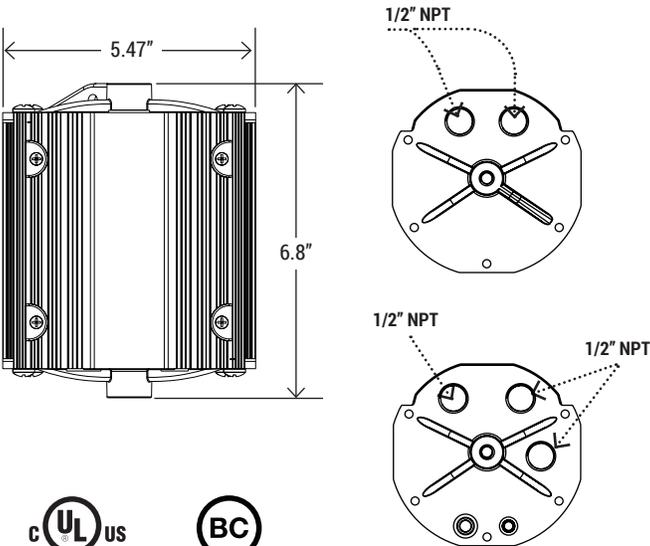


Project Name:	Notes:	Date:	Type:
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**BUILT-IN INTEGRATED JUNCTION BOX**  
For wiring to the LED driver's input



REMOTE CONTROL  
(OPTIONAL)



MODEL#	WATTS	OUTPUT VOLTAGE
PT-EMU3-25W	25W (Constant)	170V DC (High Voltage Output)
PT-EMU3-40W	40W (Constant)	

**DESCRIPTION**

Portor has solved the frustrating issue of finding an efficient easy-to-use emergency battery back-up for Round High bays! With our PT-EMU3 Series, say goodbye to bulky, unsightly round high bay EM batteries, and say hello to the future!

**FEATURES**

- High output voltage
- Low energy consumption CEC compliant
- Title 20 compliance
- Constant output power
- Remote control emergency test switch/charging indicator light
- Self-diagnostic every month and year

**LISTING**

- UL924 and tested to CSA C22.2 No. 141 field or factory installation
- UL Listed for US and Canada

**TECHNICAL SPECIFICATION**

INPUT VOLTAGE	100-347V AC
POWER FREQUENCY	50/60 Hz
INPUT CURRENT	200mA max
INPUT POWER RATING	12W max
RECHARGE TIME	24 hrs
EMERGENCY OPERATION	90 mins
BATTERY TYPE	Li-Ion
AMBIENT TEMP.	32°F - 122°F
WARRANTY	5 year limited
SURGE PROTECTION	Line-Neutral 3KV
WEIGHT	4.14 lbs (1.88 kg)

**ACCESSORIES**

(11 pcs) Wire nuts	(1 pc) Safety rope (2 pcs) Chain link connector	(1 pc) M10 Hanging Hook Bolt (1 pc) Hook	(1 pc) Remote (Optional) (1 pc) Signal receiver	(1 pc) Suitable for wire diameter 0.118-0.248" (3-6.3mm) (Optional) (1 pc) Suitable for wire diameter 0.196-0.393" (5-10mm) (Optional)
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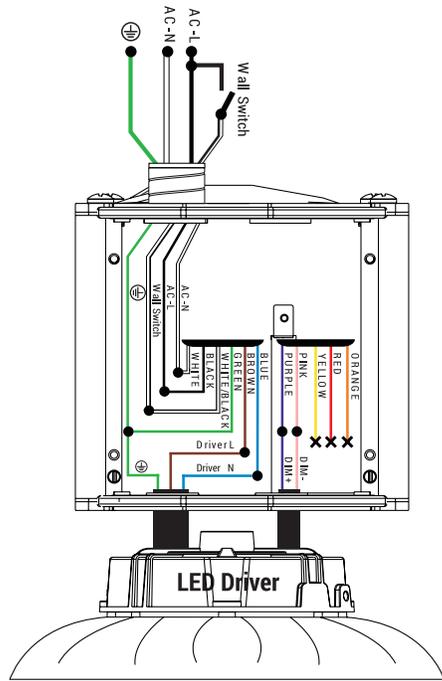
**CAUTION:**

For unit of PT-EMU3-25W better for LED lamp less than 150W (When dimming to a minimum, the power needs to be less than 20W).  
For unit of PT-EMU3-40W for LED lamp less than 300W (When dimming to a minimum, the power needs to be less than 35W).

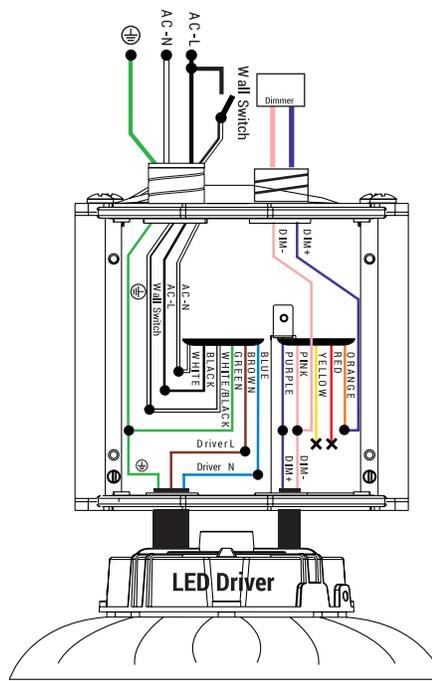
Project Name:	Notes:	Date:	Type:
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**WIRING DIAGRAM** (Note: The LED fixture must integrated with 0-10V driver, when LED fixture power is more than Emergency backup unit power.)

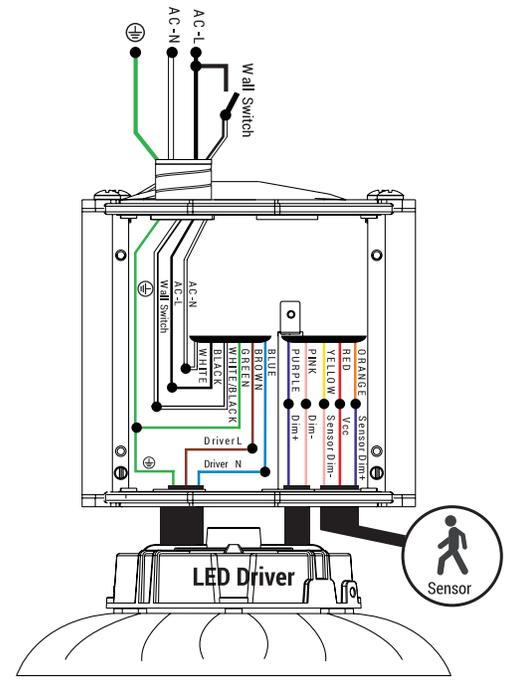
**1. NORMAL**



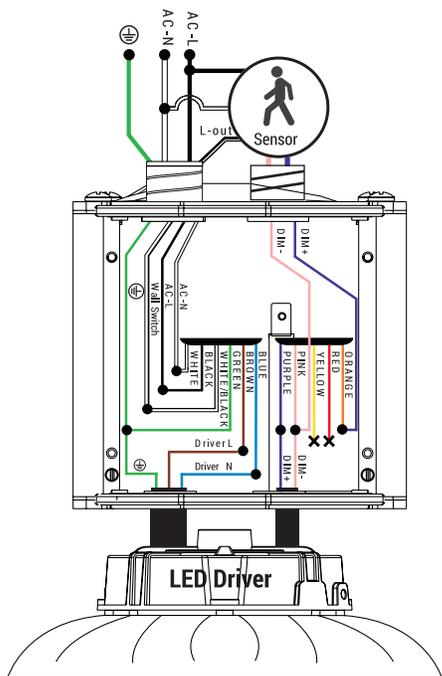
**2. WITH DIMMER**



**3. WITH DC SENSOR**



**4. WITH AC SENSOR**



**OPERATION (INDICATOR STATUS)**

Mode	Test Switch Operation	Wireless Remote Operation	Indicator Status	Comments & Solutions
AC Mode (1)	No Pressed	No Pressed	On (No flashing)	EM Driver is charging
AC Mode (2)	Pressed once	Pressed Button A once	2s On and 2s Off (Slow flashing)	Emergency Driver is conducting a 30s short-term emergency test
AC Mode (3)	Pressed twice (2s) in sequence	Pressed Button B once	2s On and 2s Off (Slow flashing)	Emergency Driver is conducting a long-term emergency until battery is fully discharged
EM Mode (1)	No Pressed	No Pressed	2s On and 2s Off (Slow flashing)	Emergency Driver is automatically conducting an emergency until battery is fully discharged
EM Mode (2)	Pressed once	Pressed Button A once	Off	EM Driver is turned off

**Problem** When indicator flashes (50ms) ON and (50ms) OFF fast or goes off, the emergency backup pack is abnormal. Contact the manufacturer.

**WARNING: RISK OF SHOCK**  
**NOTE: Please pressed test switch or wireless remote button A of the EM Driver (in once) and make certain the battery is turned off, before installation, maintenance, storage or shipping.**

**SELF-DIAGNOSTIC (MAINTENANCE):**

The integrated Self-Diagnostic Circuitry will automatically conduct monthly 30-second and annual 90-minute tests to verify proper emergency capability per Life Safety Code requirements. NFPA 101, Life Safety Code Outlines the following schedule:

- Monthly** - During AC mode, the system conducts a (30)seconds self-discharge test of the emergency led driver every 30 days. And automatically restore to normal charging after fully dis-charged.
- Annually** - During AC mode, the system conducts a (90)minutes self-discharge test of the emergency led driver every 365 days. And automatically restore
- “Written Records of the Testing should be kept by the owner for inspection by the authority having jurisdiction.”** If the charging indicator is flashing rapidly or off, contact manufacturer.

Project Name:	Notes:	Date:	Type:
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**READ AND FOLLOW ALL SAFETY INSTRUCTION**

**INSTALLATION MANUAL (IMPORTANT: WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTION SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING)**

- CAUTION** - This PT-EMU3 provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency source by turning of the AC branch circuit.
- CAUTION** - Servicing of this equipment should be performed by qualified personnel only.
- CAUTION** - Do not attempt to service the battery. A sealed, no-maintenance battery is used that is not field replaceable. Replace the entire unit when necessary.
- CAUTION** - The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition, void warranty, and result in non-compliance with UL specifications.
- CAUTION** - The PT-EMU3 requires an un-switched AC power source of 100-347VAC, 50/60Hz. Installer must confirm that fixtures input voltage covered 120VAC before installation. It will supply power under an output voltage of 170VDC in emergency mode for at least 90 minutes.
- CAUTION** - Battery pack should be charge for 24 hours every 6 months during storage.
- Battery in this unit may not be fully charged. After electricity is connected to the unit for at least 24 hours, then normal operation of this unit should take effect.
- For use in 0°C minimum, 50°C maximum ambient temperatures. Suitable for use in damp locations and plenum spaces.
- Flexible mental conduit is optional, depend on installation environment.
- The PT-EMU3 should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
- Do not use this equipment for anything other than its intended use. Equipment only use for LED Lighting emergency backup.
- Do not mount near gas or electric heaters. Do not let power supply cords touch hot surfaces.
- Do not make or leave any other open holes in the wiring enclosure or electrical component enclosure during installation.
- This fixture is for use with grounded, UL Listed, damp location rated, indoor fixture. Not for use in heated air outlets or hazardous locations.
- The emergency driver have battery inside, forbidden for insulation voltage(I/P-O/P) test.
- Do not use outdoor.

**CAUTION: BEFRE INSTALLATION, MAKE SURE THE AC POWER IS OFF!**

**STEP 1: ASSEMBLING NOTICE**

- Select a suitable location on the hangable device.
- The maximum weight of lighting fixture should be less than 20kg.
- Turn of the AC power before installing.
- Assembling the EM backup with the Safety Rope with the chain link connector.
- Please use waterproof connectors in position AC input wire interface and Dimming wire interface for application in wet location.

**STEP 2: INSTALLING**

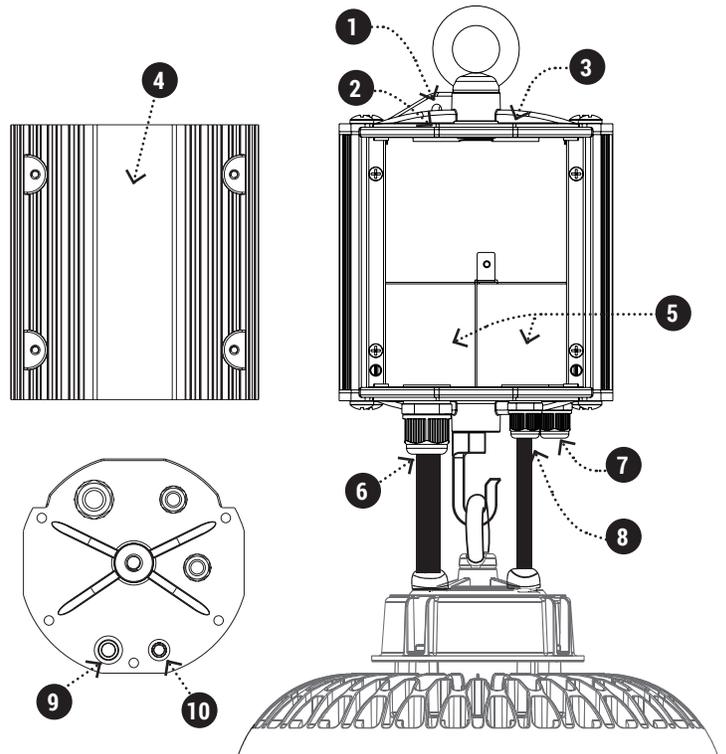
- Install the ring M10 Hanging Ring Bolt to the EM backup and fix it with screw.
- Install the M10 Hanging Hook Bolt to the EM backup and fix it with screw.
- Install the round high bay to the Hanging Hook of EM backup and tighten the screws.

**STEP 3: WIRING**

- Before wiring, make sure safety rope is securely locked and make sure all the screws are tight.
- Open the cover of junction box.
- Select the appropriate wiring diagram to connect the emergency driver to the AC driver. For other diagrams, consult the manufacturer.
- The voltage input to the dimmable wires (DIM+, DIM-) of emergency LED driver must less than 20Vdc.
- Using wire nuts to cover un-used wires and make sure all connections are in accordance with the NEC and any local regulations.

**STEP 4: TESTING**

- After wiring is complete, apply AC power. Check if the indicator light lights or not , which will indicate the battery's charging situation.
- The battery in this unit may not be fully charged. A short-term discharge test may be conducted after the PT-EMU3 has been charging for 1 hour. Charge for 24 hours before conducting a long-term discharge test.



1	Safety rope interface	6	LED driver input wire
2	AC input wire interface	7	Sensor wire interface
3	Dimming wire interface	8	LED driver dimming wire
4	Integrated junction box cover	9	Charge indicator and test switch
5	Junction box	10	Signal receiver



THIS PRODUCT CONTAINS A RECHARGEABLE LITHIUM-ION BATTERY. THE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY TO PREVENT FIRE.