

INSTRUCTION MANUAL

EMERGENCY LIGHTING AND

POWER EQUIPMENT



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IMPORTANT SAFEGUARDS

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

- 1. To prevent electric shock, switch off the mains power supply until installation is complete and AC power is supplied to this product.
- 2. This product requires an un-switched AC power supply of 120-277V, 50/60Hz.
- 3. Make sure all connections are in accordance with the National or Canadian Electrical code and any local regulations.
- 4. To reduce the risk of electrical shock, disconnect both normal and emergency power supplies and connector of this product before servicing.
- 5. It can provide minimum 90 minutes illumination under the emergency mode.
- 6. The product is UL listed for field installation and use with grounded, Listed fixtures. The case should be grounded. The product is intended for ordinary locations and for permanent installation into one or more emergency luminaires.
- 7. The LED-BP-COLD is suitable for outdoor or wet locations. When used in outdoor or wet locations, luminaire must also be Listed for outdoor or wet locations.
- 8. Use this product in -40°C minimum, 50°C maximum ambient temperatures (Ta).
- 9. Do not attempt to service the batteries. A sealed, non-maintenance battery is used that is not field replaceable. Contact the manufacturer for information or service.
- 10. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition and void warranty.
- 11. Do not use this product for other than intended use.
- 12. Installation and service should be performed by qualified service personnel.
- 13. This product should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.



THIS PRODUCT CONTAINS A RECHARGEABLE LI-ION BATTERY. THE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.

Li-ion

SAVE THESE INSTRUCTIONS

INSTALLATION



CAUTION: MAKE CERTAIN THE AC POWER IS OFF UNTIL THE INSTALLATION IS COMPLETE.

1. SPECIFICATION OF LED-BP-COLD SERIES MODEL

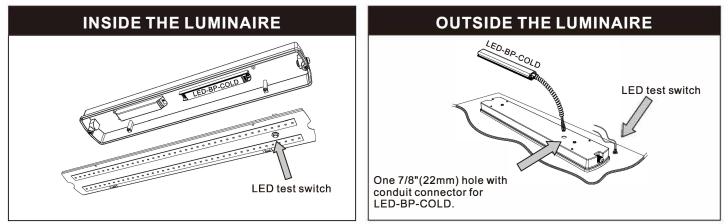
See the LED-BP-COLD MODEL SPECIFICATION below for the model selected.

MODEL	VOLTAGE OUTPUT	EMERGENCY OUTPUT (CONSTANT)
LED-BP-COLD-9W	10-300 VDC	9 WATTS
LED-BP-COLD-18W	20-300 VDC	18 WATTS
LED-BP-COLD-27W	30-400 VDC	27 WATTS

LED-BP-COLD MODEL SPECIFICATION

2. INSTALLING THE LED-BP-COLD

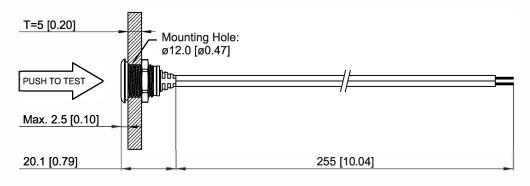
The LED-BP-COLD can be mounted inside or outside (nearby or on top of) the luminaire. The recommended Max. mounting height is as below: LED-BP-COLD-9W: 20.6ft (6.2m); LED-BP-COLD-19W: 27.7ft (8.3m), LED-BP-COLD-27W: 31.1ft (9.3m).



Note: for installation inside luminaire, it is recommended to remove flexible conduit provided.

3. INSTALLING THE LED TEST SWITCH (LTS)

Select a convenient location for the LTS so that it can be seen after installation..Drill a 1/2"(12 mm) hole for mounting the LTS. Connect the wires from LTS to the LED-BPCOLD model according to the wiring diagram on page 3.

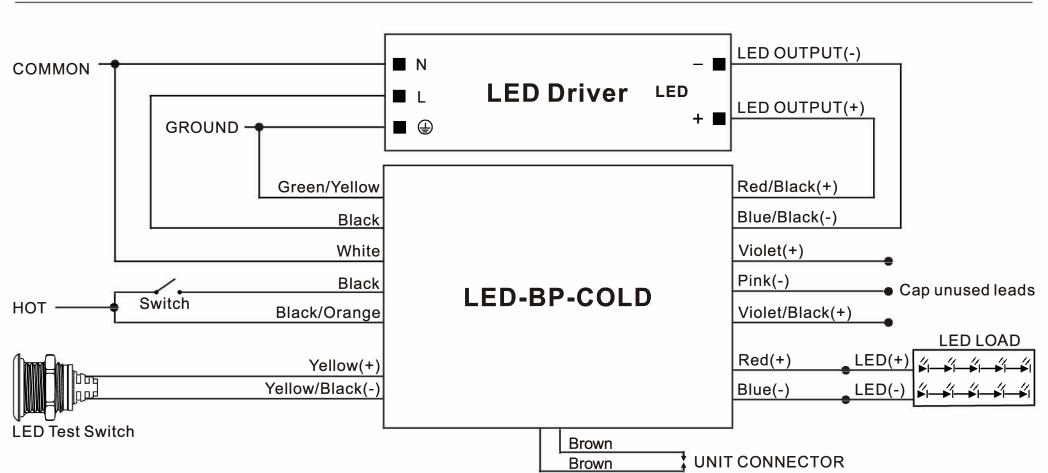


Dimension unit: mm [inch] Tolerance: ±1 [0.04]



WIRING

- 1. The LED-BP-COLD requires an unswitched AC power supply of 120-277 volt, 50/60Hz.
- 2. The LED-BP-COLD and AC driver must be on the same branch circuit.
- 3. Refer the wiring diagrams below for wiring. Consult the factory for other wiring diagram.



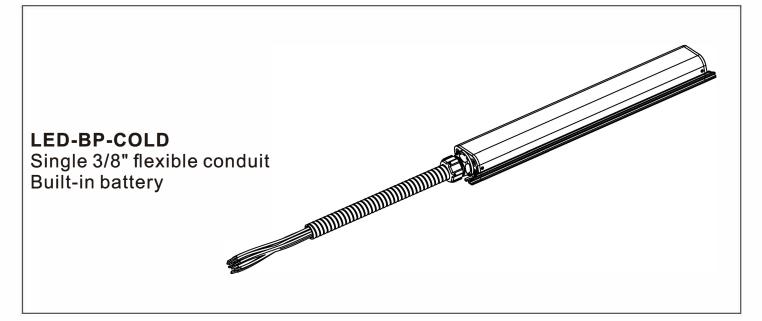
FOR DC LED LOAD

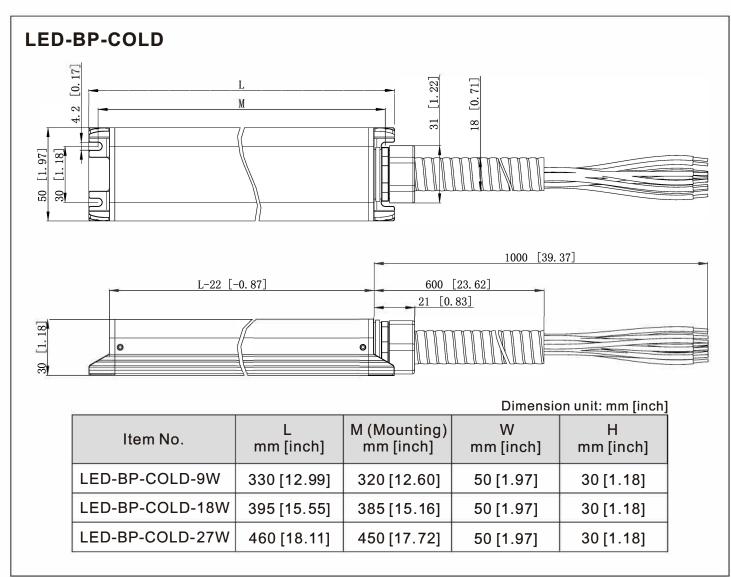


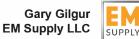
(973) 650-0853 Sales@EM-Supply.com www.EM-Supply.com

DIMENSION

Wiring configurations of LED-BP-COLD series are as below:







OPERATION / TESTING / MAINTENANCE

OPERATION

When AC power is applied, the LED test switch is illuminated, indicating that the batteries are being charged. When AC power fails, the LED-BP-COLD automatically switches to emergency power, operating the lighting load at rated emergency power. During power failure, the LED test switch will be off. When the AC power is restored, the emergency LED-BP-COLD switches the system back to normal mode of operation and resumes battery charging. The minimum emergency operation time is 90 minutes. A short term discharge test may be conducted after the LED-BP-COLD has been charging for 1 hour. The charging time for a full discharge is 24 hours.

TESTING AND MAINTENANCE

The following Periodic testing is recommended to ensure the system is working correctly.

1. Visually inspect the LED test switch (LTS) monthly. It should be illuminated when AC power is applied.

2. Conduct a 30-second discharge test by switching off the emergency breaker every month. The LTS will be off.

3. Conduct a 90-minute discharge test once per year. The LTS will be off during test.

AUTO TEST

The LED-BP-COLD has an Auto Test feature which saves cost by reducing the need for manual testing. 1. Initial Auto Test

When the system is connected properly and powered on, the LED-BP-COLD will perform an initial Auto Test. If any abnormal conditions exist, the LTS will blink quickly. Once the abnormal condition is corrected, the LTS will function correctly.

2. Preprogrammed Scheduled Auto Test

a) The unit will conduct the first Monthly Auto Test after 24 hours and up to 7 days after initial power on. Then monthly tests will be performed every 30 days.

b) Annual Auto test will occur every 52 weeks after initial power on.

- Monthly Auto Test

The Monthly Auto Test shall be executed every 30 days, and will test;

Normal to emergency transfer function, emergency, charging and discharging conditions are normal. Monthly test time is approximately 60 seconds.

- Annual Auto Test

Annual Auto Test will occur every 52 weeks after the initial 24 hours full charge, and will test;

Proper initial battery voltage, 90-minute emergency operation and acceptable battery voltage at the end of the full 90-minute test.

If the Auto Test is interrupted by a power failure, a full 90-minute Auto Test will occur again 24 hours after the power is restored. If the power failure causes the battery to fully discharge, the product will restart the Initial Auto Test and Preprogrammed Scheduled Auto Test.

MANUAL TEST

1. Press the LTS 1 time to force a ten-second emergency test.

2. Press the LTS 2 times continuously within 3 seconds to force a 30-second monthly test. After the test is completed, the next (30-day) monthly test will count from this date.

3. Press the LTS 3 times continuously within 3 seconds to force a 90-minute annual test. After the test is completed, the next (52-week) annual test will count from this date.

4. During any manual test, press and hold the LTS for greater than 3 seconds to terminate a manual test. The Preprogrammed Scheduled Auto Test time will not change.

LED TEST SWITCH CONDITIONS

LTS Slow Blinking: Normal Charging

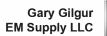
LTS On: Battery Fully Charged - Normal Mode

LTS Off: Power Failure

LTS Gradual Change: In Testing Mode

SUPPLY

LTS Quickly Blinking: Abnormal Condition - Corrective Action Required



GUIDELINE FOR FIELD INSTALLATION

The LED-BP-COLD series model is suitable for field installation with suitable LED loads including LED luminaires, LED lamps and others. Follow below 3 steps to determine if your luminaire is eligible for field installation.

1) Determine Electrical Compatibility

Verify that the emergency driver (LED-BP-COLD series) selected does not exceed the power delivered to the LED loads (both voltage and current) of the normal LED driver.

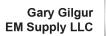
MODEL	EMERGENCY OUTPUT(CONSTANT)
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LED-BP-COLD MODEL SPECIFICATION

2) Determine Suitability of Means of Egress Lighting Levels

Using industry standard lighting design software with the IES files for the emergency luminaires, verify that the above calculated emergency lumens are sufficient to meet Code-compliant path of egress illumination levels.

While the LED-BP-COLD series has been found compliant with the requirements of UL Standard 924, it is ultimately the responsibility of the Designer/Specifier to assure the asinstalled system delivers code-compliant path of egress illumination in accordance with national, state and local code requirements.



SUPPL