

EMERGENCY LED DRIVER

100-347Vac

30W/40W/60W

IMPORTANT SAFEGUARDS

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

PLEASE READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

CAUTION: DO NOT JOIN BATTERY CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED TO THE EMERGENCY INVERTER.

CAUTION: RISK OF SHOCK-disconnect emergency and normal input power sources before servicing.

ASSEMBLY and FIELD INSTALLATION WIRING: WARNING: AC power must be off before proceeding with assembly or installation of emergency driver.

IMPORTANT: An unswitched AC power source is required (100-347V ac, 50/60 Hz). This device is designed for fixtures listed for dry, damp or wet locations.

IMPORTANT: Please charge the battery consistently for >24 hours for the first time usage so as to activate the whole battery cells of discharging/charging duration.

IMPORTANT: Customers are advised to charge emergency LED drivers 24 hours every 6 months during storage, and which could be stocked for 1 year at most. If customers don't install and recharge for more than one year, the batteries may be damaged. This is not covered in the warranty, and we would charge for replacement.

IMPORTANT: Lighting fixture manufacturers, electricians, and end-users need to ensure product system compatibility test before using and fnal installation.

IMPORTANT: For BLD-RM30X1-190H suggested to use for LED lamp less than 200W(when dimming to minimum. the power needs to be less than 25W).
For BLD-RM40X1-190H suggested to use for LED lamp less than 300W(when dimming to minimum. the power needs to be less than 35W).
For BLD-RM60X1-190H suggested to use for LED lamp less than 400W(when dimming to minimum. the power needs to be less than 55W).
For BLD-RM30X1-190D suggested to use for LED lamp less than 200W(when dimming to minimum. the power needs to be less than 25W).

IMPORTANT: Make sure all connections are in accordance with the National Electrical Code or Canadian Electrical Code and any local regulations.

CAUTION: To reduce the risk of electric shock disconnect both normal and emergency sources within this unit before servicing any equipment connected to this unit.

CAUTION: Do not mount near gas or electric heaters.

CAUTION: Equipment should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.

CAUTION: The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.

CAUTION: Do not use this equipment for other than its intended use.

CAUTION: Connect only DC rated electrical loads. Do not connect electrical loads that are rated for AC input only.

CAUTION: Do NOT use near heated air handling outlets or hazardous locations, Suitable for use in Li-ion battery: 5°C -50°C/LiFePO4 battery: 5°C-60°C ambient temperatures.

CAUTION: The equipment is intended for ordinary locations and for permanent installation into one or more Listed emergency luminaires.

CAUTION: Battery is rechargeable Li-ion / LiFePO4 type and must be recycled or disposed of properly, Do not use this emergency driver with accessory equipment other than recommended by the manufacturer.
Failure to follow this may cause an unsafe condition and will void warranty.
Servicing of this equipment should be performed by qualifed personnel only

IMPORTANT: Illuminated indicator (LED light) means battery is in charge mode when AC power is applied. It is recommended and reguired by applicable code to test emergency function to ensure proper operation of the system; press the remote controller ON button every 30 days to ensure the emergency driver is functioning and LED light source is illuminated. Conduct a ninety minutes (90) discharge test one time (1) per year ; LED liaht source should be illuminated for a minimum of ninety minutes (90).

TESTING SYSTEM: The emergency battery requires a minimum charge of one(1)hour before testing the circuit. A full charge requires twenty four (24) hours. The emergency battery pack is not for in an air-handling fixture.



Features

- Simple wiring: directly connect to AC INPUT of LED driver.
- Constant power output 30W/40W/60W.
- Universal input range,100-347Vac,50/60Hz.
- High output voltage DC 120-190V.
- Optimized design for UFO highbay fixture,private mold patent design.
- Built-in integrated junction box.
- Protection:over-voltage,over-load,open-circuit.
- Wireless remote control or non-remote control for emergency test are optional.
- UL Listed for field or factory installation.
- Comply with UL924 standard and CSA 22.2, No. 141 for USA and Canada.
- California Energy Commission (CEC) Title 20 with BC compliant.

Model NO.

Model NO	Input Voltage	Emergency power	Emergency Time	Battery
BLD-RM30X1-190D	100-347V ac	30W	90minutes	LiFePO4(5°C-60°C)
BLD-RM30X1-190H		30W	90minutes	Li-ion(5°C-50°C)
BLD-RM40X1-190H		40W		
BLD-RM60X1-190H		60W		

NOTE: X can be R or D, R stands for remote version(provided with remote control), D stands for non-remote version(not providedwith remote control).D represent LiFePO4 battery; H represent Li-ion battery.

Specifications

Input Voltage	100-347VAC 50/60Hz	Test switch/charging indicator light	☐ Remote Control ☐ Non-remote Control
Charging Time	24Hours		
Input Current	200mA max	Battery	Li-ion/LiFePO4 battery
Input Power	15W max	Output Voltage	120-190V dc
Emergency Time	90minutes	Output power	30W/40W/60W
Warranty	5Years	Ambient Temp	5°C-50°C/5°C-60°C

The BillDa BLD-RMXXX1-190Y series LED emergency drivers are designed for use with UFO LED high fixtures with 0-10V dimmable LED drivers, it allows the LED UFO high bay to be used for both normal and emergency operation.

c UL us LISTED E519224

BC

THIS PRODUCT CONTAINS A RECHARGEABLE LITHIUM BATTERY. THE BATTERY MUST BE RECYCLED OR DISPOSED OFF PROPERLY.

LiFe PO4/Li-ion

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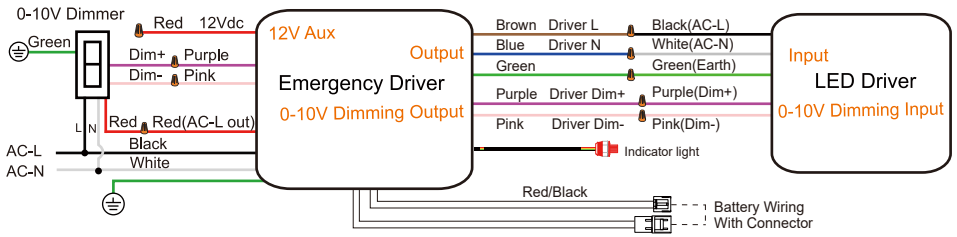
Wiring Diagram

1 With Dimmer

For UFO LED Highbay ⩽ 300W and have 0-10V dimming function



IMPORTANT

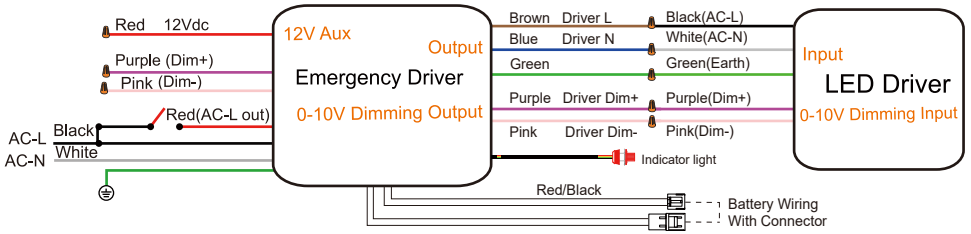
Emergency driver 0-10V dimming wires must be connected to UFO LED driver dimming wires for EM to function properly. will NOT operate if not connected.

RECOMMENDATION:

Emergency Output Power≥20% Input Power of UFO LED High Bay

2 With Wall Switch(Without Dimmer)

For UFO LED Highbay ⩽ 300W and have 0-10V dimming function



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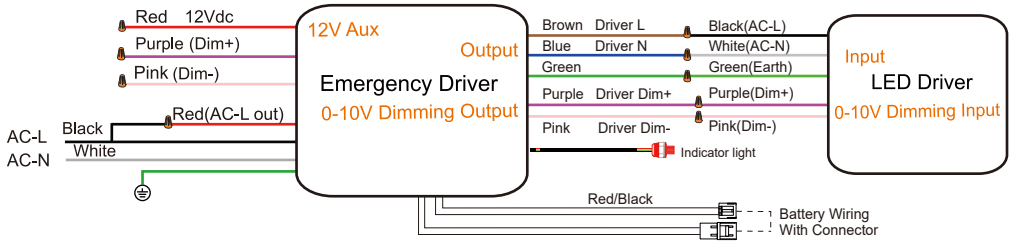
3 Without Wall Switch&Dimmer, 24hours lighting

For UFO LED Highbay ⩽ 300W and have 0-10V dimming function



IMPORTANT

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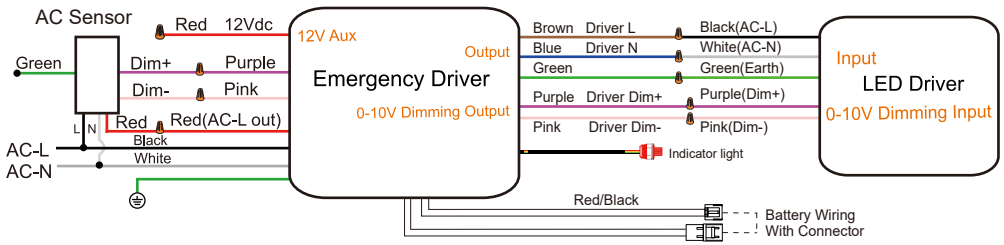
4 With Sensor(100-277/347V AC)

For UFO LED Highbay ⩽ 300W and have 0-10V dimming function



IMPORTANT

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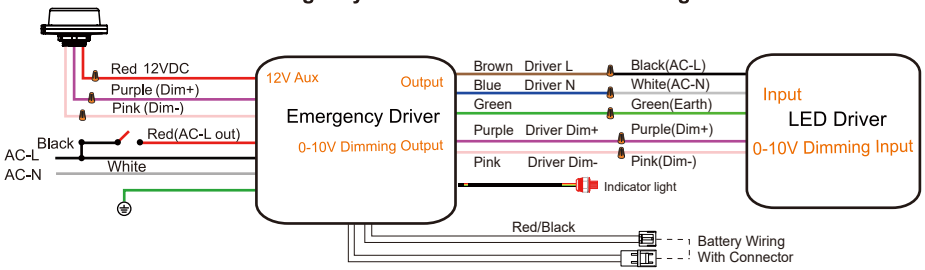
Wiring Diagram

⑤ With 12VDC Sensor

(The current is less than 30mA, and 12Vdc sensor must connect to emergency LED driver's 12Vdc wire,can't connect to UFO LED driver's 12Vdc wire. Please plug in the DC12V sensor before connecting to the mains.)

For UFO LED Highbay ≤ 300W and have 0-10V dimming function



IMPORTANT

Emergency driver 0-10V dimming wires must be connected to UFO LED driver dimming wires for EM to function properly. will NOT operate if not connected.

RECOMMENDATION:

Emergency Output Power≥20% Input Power of UFO LED High Bay

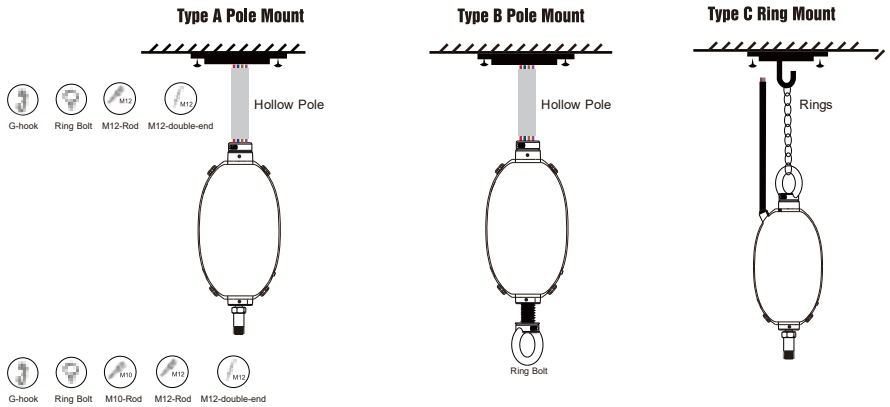
INSTALL STEPS

Step #1
Disconnect all power sources to the lighting fixture and ensure they are locked out during installation and maintenance.
The LED driver must be sourced from the LED emergency driver.
Select a suitable location on the ceiling with hangable device.

Step#2
(A) Install the ring bolt to the top thread hole of LED emergency driver and fix it with screw.
(B1) Install the G-hook/Ring bolt/M10-rod/M12-rod to the Bottom thread hole of LED emergency driver and fix it with screw.
(B2) Install the Rod to the Bottom thread hole of LED emergency driver and fix it with screw.
(C) Install the LED emergency driver to UFO highbay fixture with screw.
Open the LED emergency cover and remove the plastic covers and install the waterproof connectors

Step#3
Pull all wires through the waterproof connectors into the Cavity of emergency driver.
(A): Connect the AC output wires (Brown,Blue and Green) of emergency driver with AC input wires of LED lighting fixture.
(B): Connect the dimming output wires (Purple and Pink) of emergency driver with the dimming input wires of LED Driver.
(C): Connect AC input wires (Black,White and Red) of emergency driver with AC main power cord.
(D): Connect the input dimming wires (Purple,Pink) of emergency driver with dimming wires from dimmer.
Make sure all connections are with orange wiring caps in accordance with manufacture's installation manual.
Lock up the cover of junction box.
(E): After all the wiring connections,and then connect the battery cable with quick connectors.

Operation Instructions



See instruction manual,for typical installation and select appropriate mounting method.

Instructions For Remote Control

ON

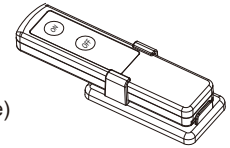
Non-Remote version:

Test Switch & Indicator
Red ON: Charging mode
Green ON: Full-charged
Indicator light OFF: Discharging (emergency mode)
Green Flashing: Self-testing
Red Flashing: Error

Note: AC power on, click the test switch, switch to emergency mode , then automatically back to the working mode of AC power supply.

Remote version:

Test Switch & Indicator
Red Flashing: Charging
Red ON: Full-charged
Red OFF:Discharing (emergency mode)



Remote control
Press the ON button to test the emergency function. The light will switch to the emergency mode and the indicator light will turn off. Press the OFF button, and the light fixtures will restore to the Mains mode and normal lighting.
Note: The remote control must be pointed at the indicator light and be within a 45-degree angle to receive a signal/command. The remote control needs two AAA batteries to operate (not included).

Size

