

BillDa®
EMERGENCY POWER LEADER

EMERGENCY LED DRIVER



 **100-347Vac**

30W/40W/60W

Features

- Simple wiring:directly connect to LED driver AC Input
- Constant power output 30W/40W/60W
- Universal input range, 100-347Vac, 50/60Hz
- High output voltage DC 170V
- Optimized design For UFO highbay fixture
- Protection:over-voltage,short-circuit,over-load,open-circuit
- Wireless remote control or non-remote control for emergency test are optional
- UL listed for factory and field installation
- CEC Title 20 and US DOE emergency efficiency



RoHS



On/off control



Remote control
setting



10-15M Highbay
altitude


Model NO.

Model NO	Input Voltage	Emergency power	Emergency Time
BLD-RM30X-YYY	100-347VAC	30	90Minutes
BLD-RM40X-YYY	100-347VAC	40	90Minutes
BLD-RM60X-YYY	100-347VAC	60	90Minutes

Remark: "X" can be "R" or "D", "R" stands for remote control, "D" stands for non-remote control.

Specifications

Input Voltage	100-347VAC 50/60Hz	Test Switch/Charging Indicator Light	<input type="checkbox"/> Remote Control <input type="checkbox"/> Non-remote control
Output Voltage	170V DC	Battery	Li-ion battery
Input Current	≤ 200mA	Charging time	≥ 24Hours
Input Power	15W	Output power	<input type="checkbox"/> 30W <input type="checkbox"/> 40W <input type="checkbox"/> 60W
Emergency Time	90minutes		
Warranty	5 Years	Weight	3.3kg
Ambient Temp	5°C to 50°C	Dimensions	239.8xΦ142.3mm

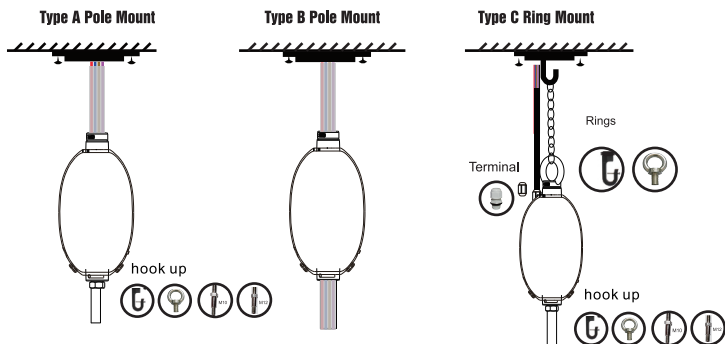
 **100-347Vac**

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The BillDa BLD-RMXXX-YYY series LED emergency drivers are designed for use with UFO LED high bay fixtures with 0/1-10V dimmable led drivers. It allows the LED UFO high bay to be used for both normal and emergency operation.

Operation Instructions



Instructions For Remote Control

ON

Non-Remote version:

Test Switch & Indicator

Green : charging mode

Red : discharging mode

* Note: AC power on, click the test switch, switch to emergency mode and lasts 3S, then automatically back to the working mode of AC power supply

Remote version:

Test Switch & Indicator

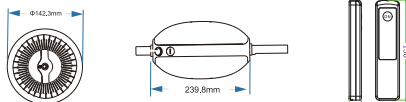
Red : charging mode

Red off: discharging mode



Note: Remote must be pointed at the indicator light and be within a 45 degree angle to receive a signal/command. Remote needs two AAA batteries to operate (not included).

Size



EMERGENCY LED DRIVER

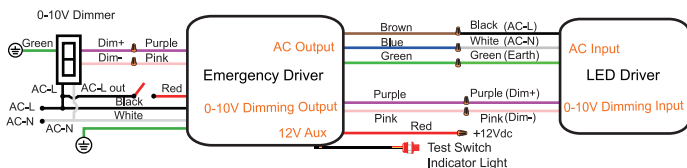
30W/40W/60W

100-347Vac

Wiring Diagram

1 With Dimmer

For UFO LED Highbay $\leq 300W$ and have 0-10V dimming function



IMPORTANT

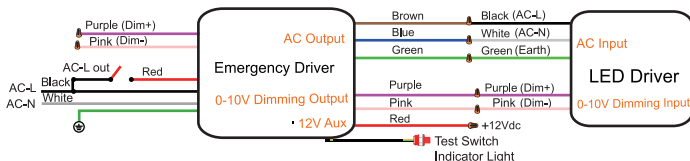
Dimming wires must be connected to UFO LED Driver dimming wires for EM to function properly.
Will NOT operate if not connected.

RECOMMENDATION:

Emergency Output Power $\geq 20\%$ Output Power of UFO LED High Bay

2 With Wall Switch(Without Dimmer)

For UFO LED Highbay $\leq 300W$ and have 0-10V dimming function



IMPORTANT

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 $\geq 20\%$ Output Power of UFO LED High Bay

EMERGENCY LED DRIVER

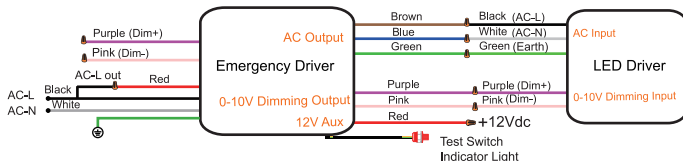
30W/40W/60W



100-347Vac

3 Without Wall Switch&Dimmer, 24hours lighting

For UFO LED Highbay $\leq 300W$ and have 0-10V dimming function



IMPORTANT

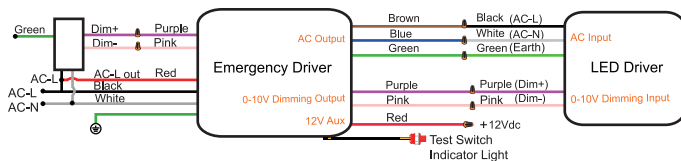
Dimming wires must be connected to UFO LED Driver dimming wires for EM to function properly.
Will NOT operate if not connected.

RECOMMENDATION:

Emergency Output Power $\geq 20\%$ Output Power of UFO LED High Bay

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

For UFO LED Highbay $\leq 300W$ and have 0-10V dimming function



IMPORTANT

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 $\geq 20\%$ Output Power of UFO LED High Bay

EMERGENCY LED DRIVER

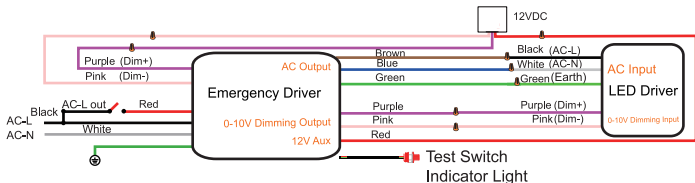
30W/40W/60W



Wiring Diagram

5 With 12VDC Sensor

For UFO LED Highbay $\leq 300W$ and have 0-10V dimming function



IMPORTANT

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 $\geq 20\%$ Output Power of UFO LED High Bay

INSTALL STEPS

Step #1

Disconnect AC Power From Fixture

Disconnect all power sources to the lighting fixture and ensure they are locked out during installation or maintenance. The AC driver must be sourced from the backup nano inverter.

Select a suitable location for the backup nano inverter and install such that its output leads can connect to the input leads of the AC driver.

Step #2

INSTALL THE BACKUP NANO INVERTER AND WIRING.

Select a suitable location on the ceiling for hangable device.

Install the hook to backup nano inverter and fix it with screw.

Install the ring bolt to the backup nano Inverter and fix it with screw.

Install the backup nano Inverter to the lighting fixture with screw. Open the backup nano Inverter cover and remove the plastic connectors and install the waterproof connectors.

Put the wires through the waterproof connector into the inside of emergency driver. Connect the wiring by orange wiring caps and make sure all connections are in accordance with manufactures installation manual.

Fix the junction box cover by screw.

Hang the backup nano inverter to the hangable device on the ceiling.

See Instruction manual, for typical installation and select appropriate mounting method

NOTE: Bushings are not installed on the backup nano inverter at the factory, but packed in the kits bag.

Step #3

LOCK UP THE COVER OF JUNCTION BOX & APPLY POWER

After installation is complete, apply AC power.

At this point, power should be connected to the AC driver and the backup nano inverter, and the Charging Indicator Light should illuminate indicating the battery is charging.

A short-term discharge test may be conducted after the backup nano inverter has been charging for 1 hour. Charge for 24 hours before conducting a long-term discharge test.

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IMPORTANT SAFEGUARDS

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

PLEASE READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

WARNING : AC power must be off before proceeding with assembly or installation of emergency LED driver.

IMPORTANT: An un-switched AC power source of 100Vac to 347Vac is required. This device is designed for use in fixtures listed for dry, damp and wet locations.

CAUTION: For unit of BLD-RM30D/R-YYY better for LED lamp less than 200W(When dimming to a minimum, the power needs to be less than 25W) . For unit of BLD-RM40D/R-YYY better for LED lamp less than 300W (When dimming to a minimum, the power needs to be less than 35W)

CAUTION: Make sure all electrical connections conform to the National Electrical Code and all applicable local regulations.

CAUTION: Do not let power supply cords touch hot surfaces.

CAUTION: Do not mount near gas or electric heaters.

CAUTION: Use with grounded, UL Listed, dry or damp or wet location rated fixtures.

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 type and must be recycled or disposed of properly

Do not use this emergency driver with accessory equipment other than recommended by manufacturer; failure to follow this may cause an unsafe condition. Servicing should only be performed by qualified service personnel. Do not use this emergency driver for other than intended use. Not suitable for high-risk task area lighting. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.

IMPORTANT: Indicator (LED light) illuminated indicates battery in charge mode when AC power is applied. It is recommended and required by applicable code to test emergency LED Driver to ensure proper function of the system; push the test switch every thirty (30) days to ensure the emergency driver is functioning by illuminating the light source. Conduct a ninety (90) minutes discharge test one (1) time per year; LED light source should be illuminated for 90 minutes

TESTING SYSTEM: The emergency battery requires a charge minimum of one (1) hour before testing the circuit, A full charge requires twenty four (24 Hours).



Website



WeChat

Shenzhen BillDa Technology Co.,LTD

Web: www.billda.net Email: gm@billda.net TEL: 0755-29360026

Add: Bldg4-5,Tongfuyu industrial park, Aiqun Road, Shiyan Town
Shenzhen, Guangdong, China.