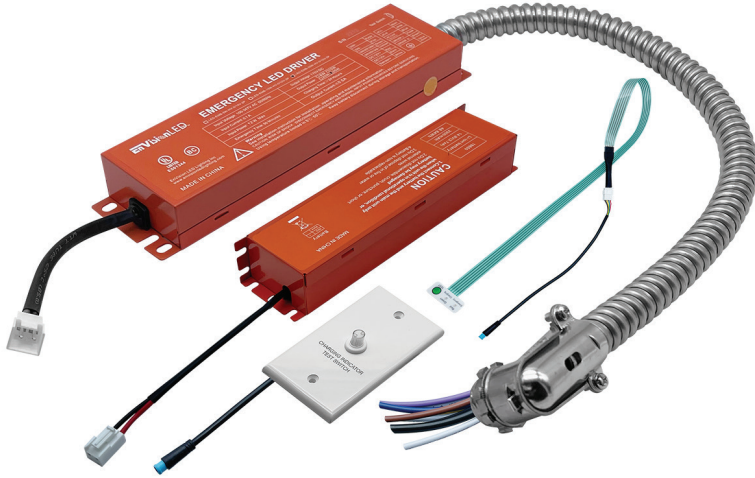


Installation Instruction LED-EMB-25W-HV-0/10V-2P



FEATURES

- UL Listed to UL924 and tested to CSA 22.2, No. 141 For field or factory installation (Indoor and Damp)
- Universal input voltage: 100-347 Vac, 50/60Hz
- Ideal for various kids 0-10V dimmable LED lights up to 150W (Also ideal for non 0-10V dimming LED lights up to 25W)
- Easy wiring: Directly connect to AC INPUT of LED Lights
- Constant power output
- Recyclable long-life high-temperature Lithium-ion battery
- CED Title 20 compliant
- Meets or exceeds all National Electrical Code and Life Safety Code Emergency Lighting Requirements
- Suitable for dry and damp locations
- 5 year limited warranty
- RoHS Compliant

ELECTRICAL SPECIFICATIONS

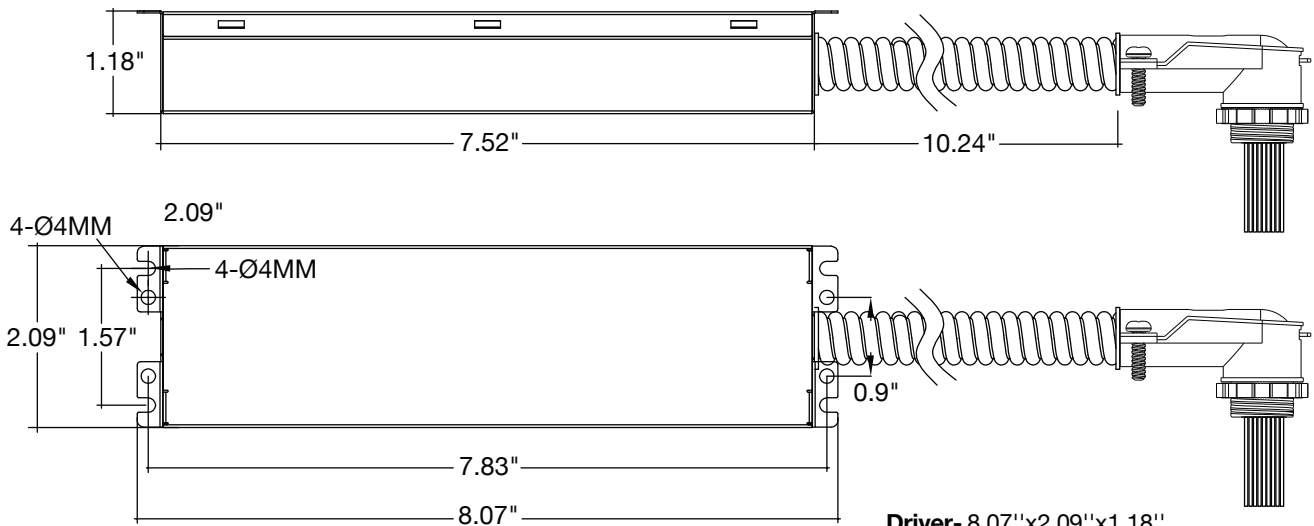
- Input Voltage: 100-347Vac, 50/60Hz
- Input Current: 100mA Max
- Input Power: 12W Max
- Emergency Output Power: 25W
- Recharge Time: 24 Hours
- Discharge Time: 90 Minutes
- Battery: Life PO4 Battery
- Output Current: $\leq 300\text{mA}$
- Ambient Temp: 41°F to 140°F



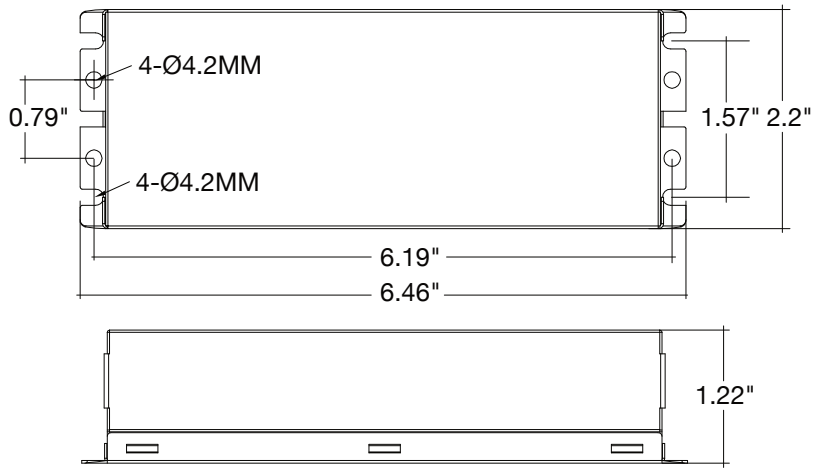
ORDERING GUIDE

Model Number	Input Voltage	Output Voltage	Output Power	Application	Discharging Time	Battery Type
LED-EMB-25W-HV-0/10V-2P	100-347V AC, 50/60Hz	120-190V DC	25W	25W <0-10V Dimmable Fixture $\leq 150\text{W}$ $\leq 25\text{W}$ LED Lamps without Dimming Function	90 minutes	LiFePO4 Battery

DIMENSIONS



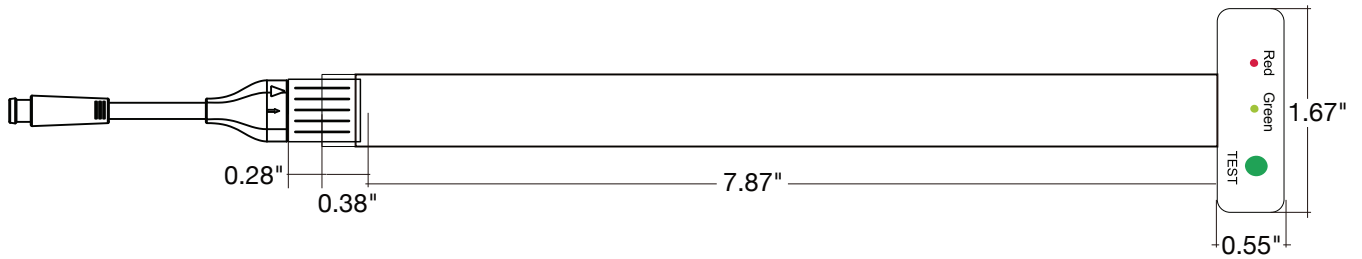
Driver- 8.07"x2.09"x1.18"
(205mmx53mmx30mm)
mounting center-7.83"



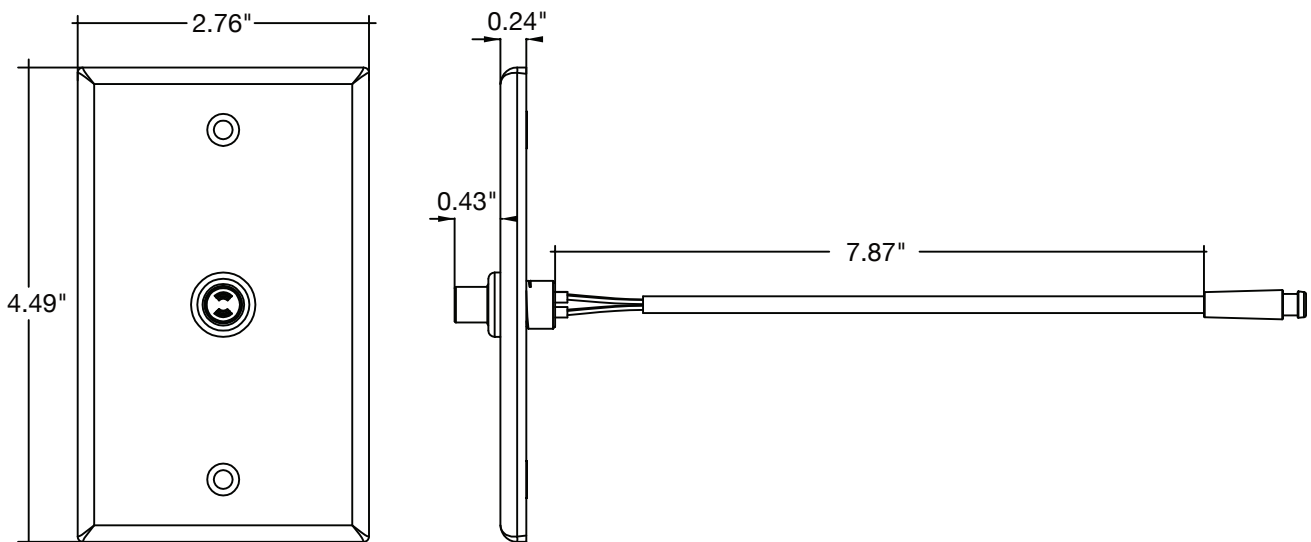
Battery Case- 6.46"x2.2"x1.22"
 (164mmx56mmx31mm)
 mounting center-6.19"

TEST SWITCH

Skinny Film Test Switch



M12 Plastic Test Switch With Wall Plate



OPERATION

Normal Mode: AC power is present. The AC driver operates the LED load as designed. The emergency driver is in the standby charging mode. The indicator light will be lit providing a visual indication that the battery is being charged.

Emergency Mode: When the AC power fails, the emergency driver detects the AC power outage and automatically switch to emergency mode, operating the LEDs at reduced output for a minimum of 90 minutes. When the AC power is restored, the emergency driver switches the system back to the Normal Mode and resumes battery charging.

SELF-TEST

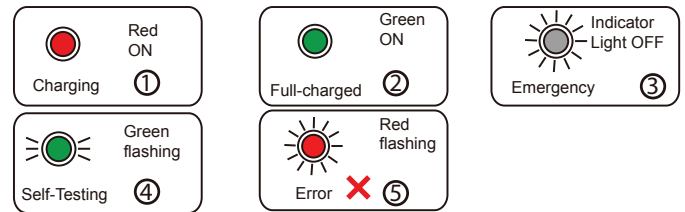
This unit contains a control/monitor circuit that if enabled automatically performs a 30-second discharge test once a month and a full 90-minute discharge test once a year. During routine testing, the self-testing emergency driver simulates an AC power failure causing the unit to automatically switch to emergency mode. The unit will monitor the operation of the LED load, and emergency duration. If the emergency system functions properly, then the unit will return to normal mode.



Indicator Light Introduction

- ① Red/ON: Charging
- ② Green/ON: Full-charged
- ③ Indicator light OFF: Discharging(emergency mode)
- ④ Green/Flashing: Self-testing
- ⑤ Red Flashing:Error

Note: See Trouble Shooting Guide



TEST SWITCH INDICATOR STATUS & TROUBLE SHOOTING GUIDE

The charge indicator will be lit Solid Red when charging, and will be lit Solid Green when fully charged and in the standby mode. The indicator will flashing Green when self-testing.

Mode	LED Indicators Status	Error	EM Driver Status / Mode	Corrective Action
Normal Mode	Solid Green	None	Battery fully charged/System OK	/
	Solid Red	None	Battery is charging	/
	Both LEDs OFF	None	In EM mode or emergency run-time is ended	/
	Flashing Green	None	Self-Diagnostic test underway	/
Fault Mode	Flashing Red	Overload protection		1. Check load power and connect 2. Check input and dimming line 3. Powered on again 3. Contact after-sales

MANUAL TEST

Test Mode	Description	Action	Status
Quick Test	Quick discharge test	Press the test button 1 time	LED load will light up for 5 seconds
Monthly Test*	30-Second Test	Press the test button 3s continuously	LED load will light up for 30 seconds
Annual Test*	90-Minute Test	Press the test button 6s continuously	LED load will light up for 90 minutes
Sleep Mode**	In emergency mode, press test button twice to cut off the emergency output and enter shipping mode		

* Press the test button 1 time, can quite 30-second test and 90-minute test.

** Sleep Mode deactivates the unit and internally disconnects the battery to prepare the unit for storage prior to installation. The Automatic Power Activate feature will reactivate the unit upon installation and first power-up.

WIRING DIAGRAM

CAUTION: Before installing, make certain the AC power is off.

Refer to the diagram below for the appropriate wiring of the LED load and driver. Install in accordance with the National Electrical Code and local regulations. For additional wiring diagrams consult Customer Service.

***Note: This product is not compatible with all luminaires, please conduct a compatibility test before use.**



IMPORTANT:

EM driver output dimming wires must connect to 0-10V dimming wires (DIM+, DIM-) of fixture LED driver. Will NOT operate if not connected.

Model: LED-EMB-25W-HV-0/10V-2P

Input Voltage:	100-347Vac, 50/60Hz	Emergency Time:	≥ 90 minutes
Input Current:	≤ 100mA	Ambient Temperature:	41°F ~ 140°F
Input Power:	12W Max.	Application:	(1) 25W <0-10V dimming luminaires ≤150W (2) non-dimming luminaire ≤25W
Output Voltage:	120-190V DC	Max. Mounting Height:	27.2ft
Output Power:	25W		



* During Emergency Mode, Press testing button twice to cut off the emergency output and enter Shipping Mode

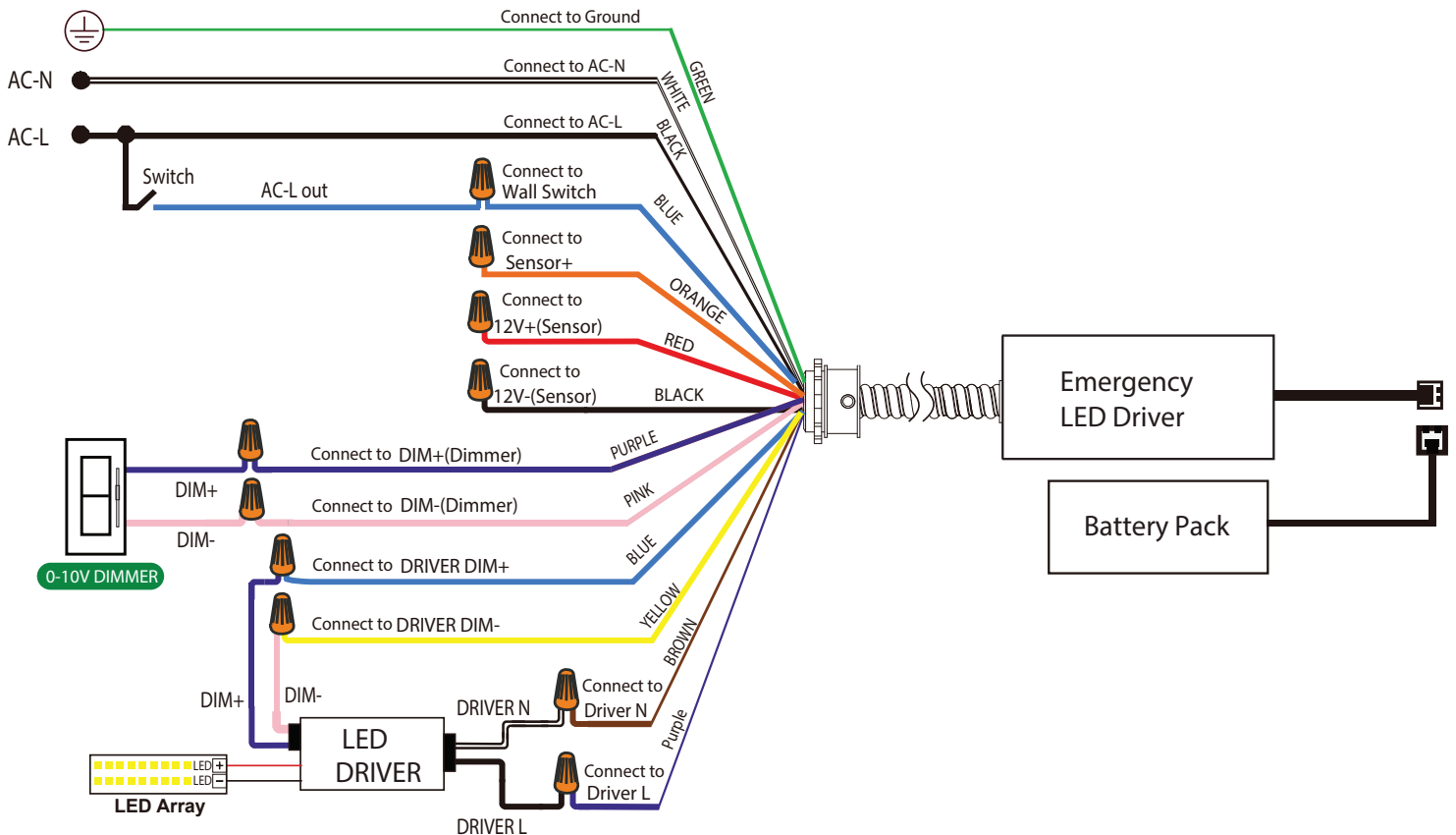
Product includes the following components:

PARTS	QUANTITY
LED Emergency Driver	1
Charging Indicator/Testing Button	1
Charging Indicator/Testing Button Wall Cover	1
Instruction Sheet	1

1 With 0-10V Dimmer

For luminaire with 0-10V LED driver and using 0-10V Dimmer (* 25W < Luminaire Power ≤ 150W)

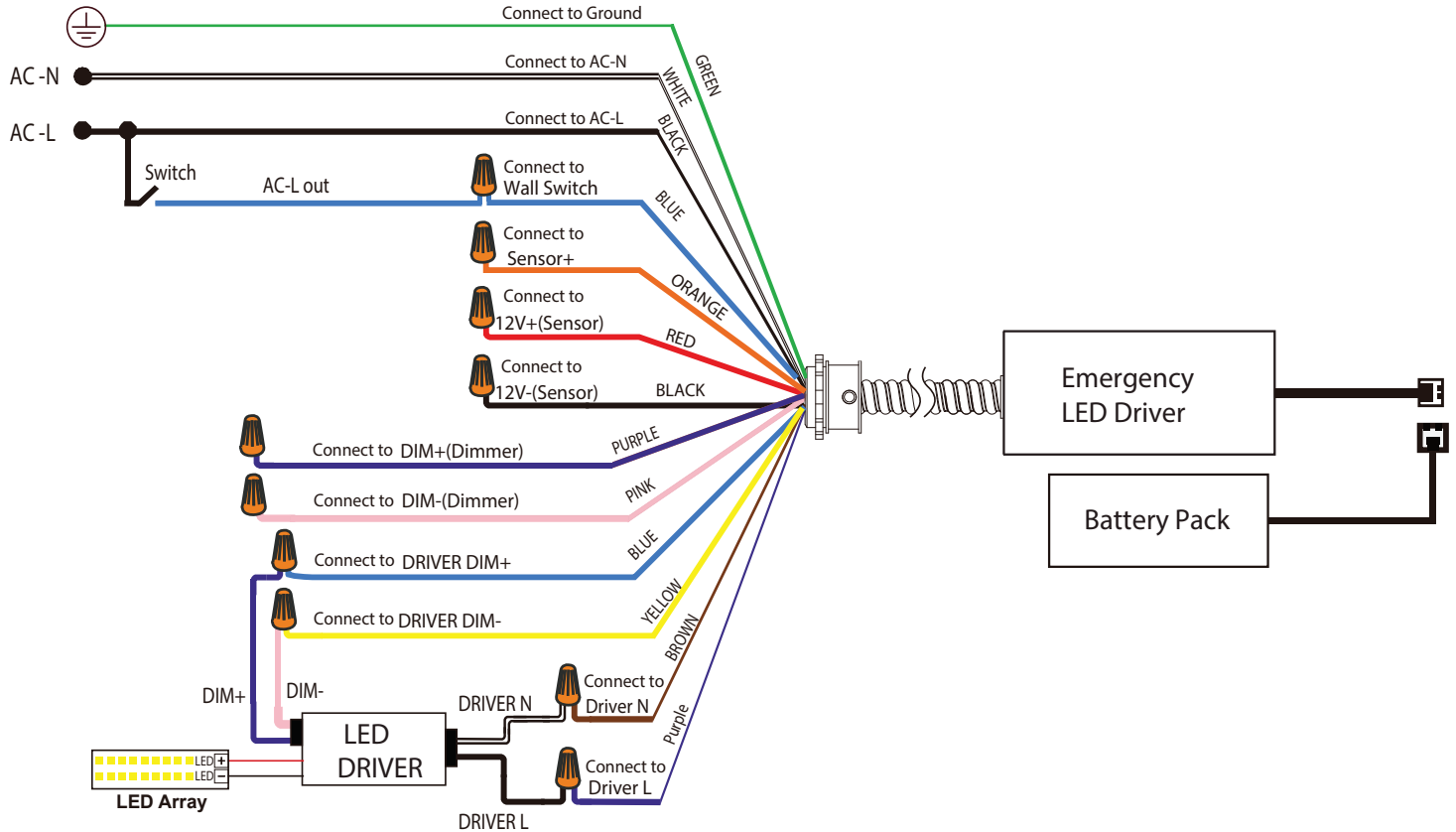
Emergency Driver Dim+ (Blue), Dim- (Yellow) has to connect with LED driver DIM+ and DIM- respectively, as shown.



2 With Wall Switch

For luminaire with 0-10V LED driver, without using 0-10V dimmer (*25W<Luminaire Power≤150W)

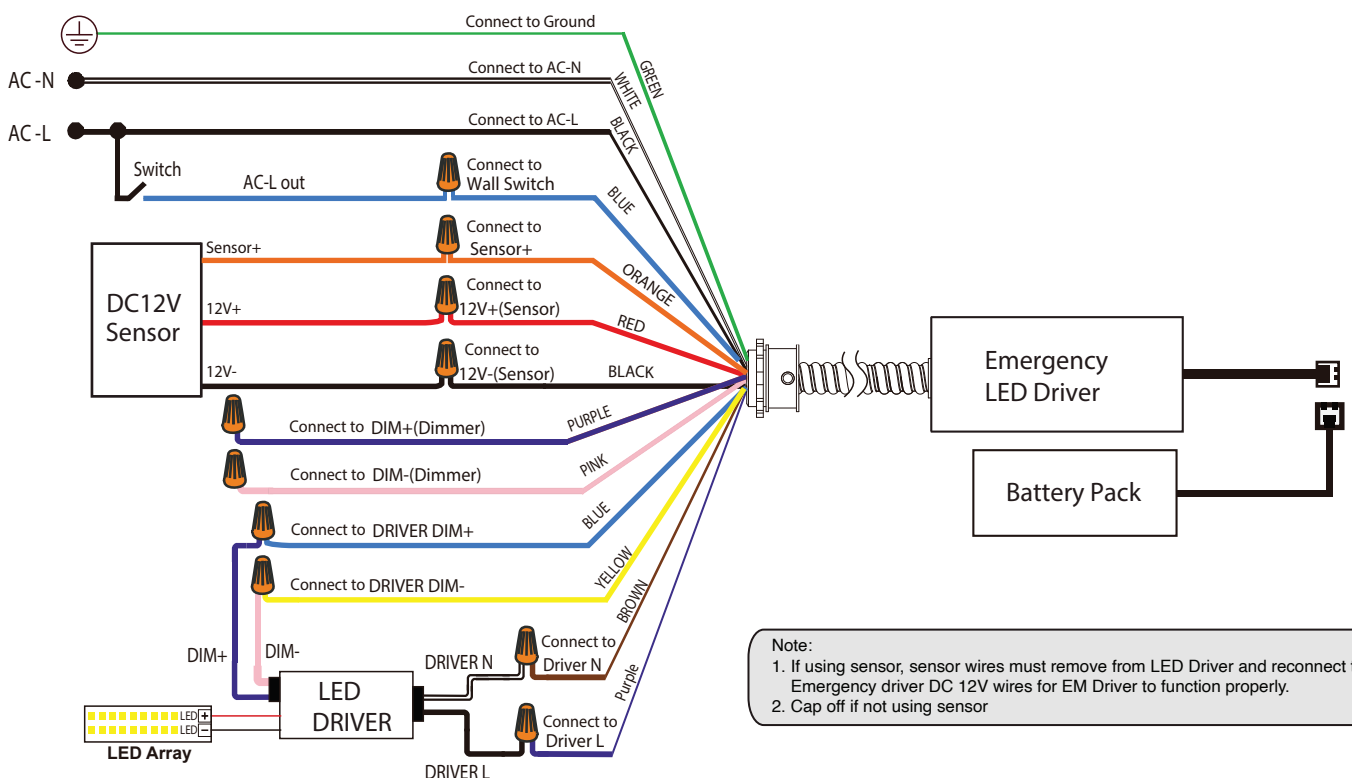
Emergency Driver Dim+ (Blue), Dim- (Yellow) has to connect with LED driver DIM+ and DIM- respectively, as shown.



3 With low voltage 12VDC sensor

For luminaire with 0-10V LED driver, without using 0-10V dimmer (*25W<Luminaire Power≤150W)

Emergency Driver Dim+ (Blue), Dim- (Yellow) has to connect with LED driver DIM+ and DIM- respectively, as shown.



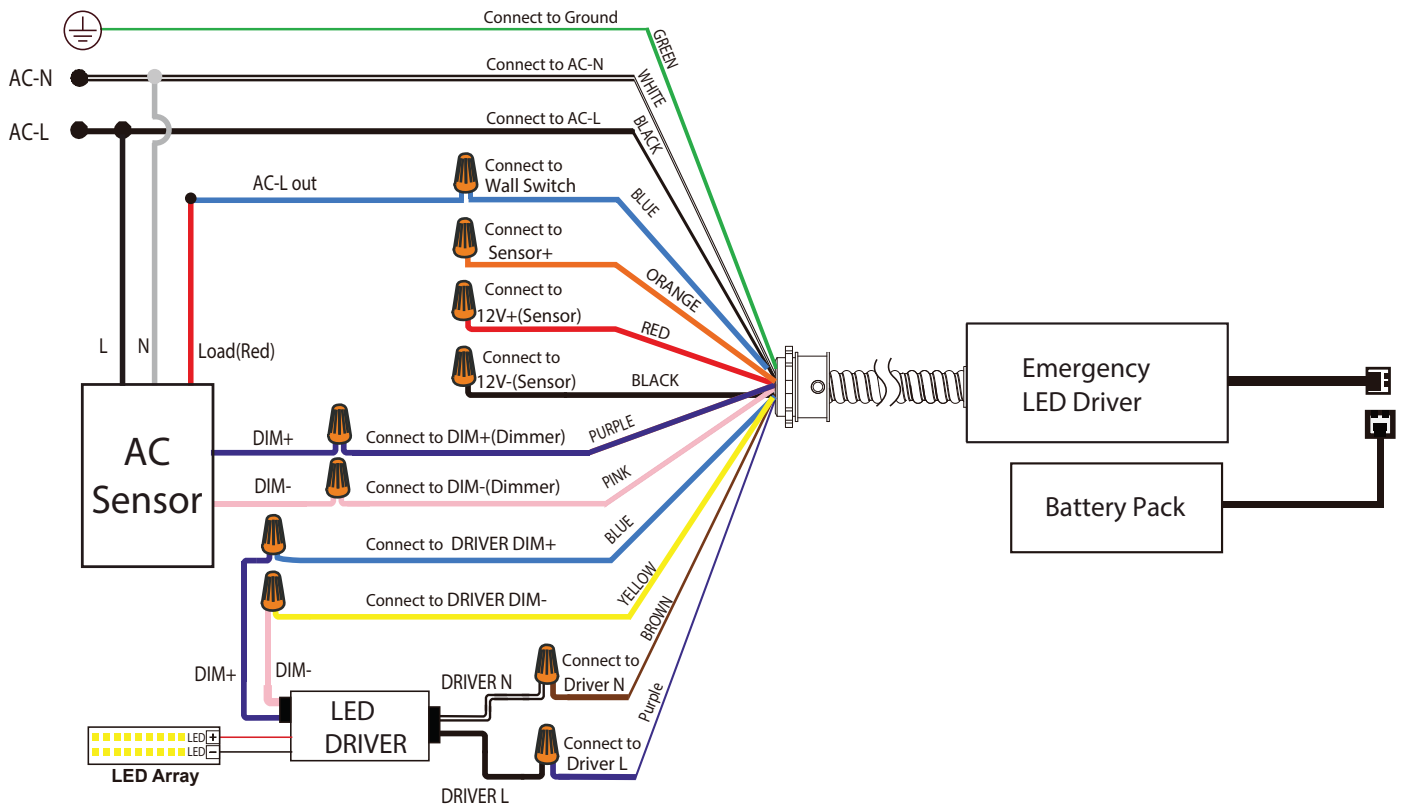
Note:

1. If using sensor, sensor wires must remove from LED Driver and reconnect to Emergency driver DC 12V wires for EM Driver to function properly.
2. Cap off if not using sensor

4 With High Voltage Sensor(100-277Vac, or 100-347Vac)

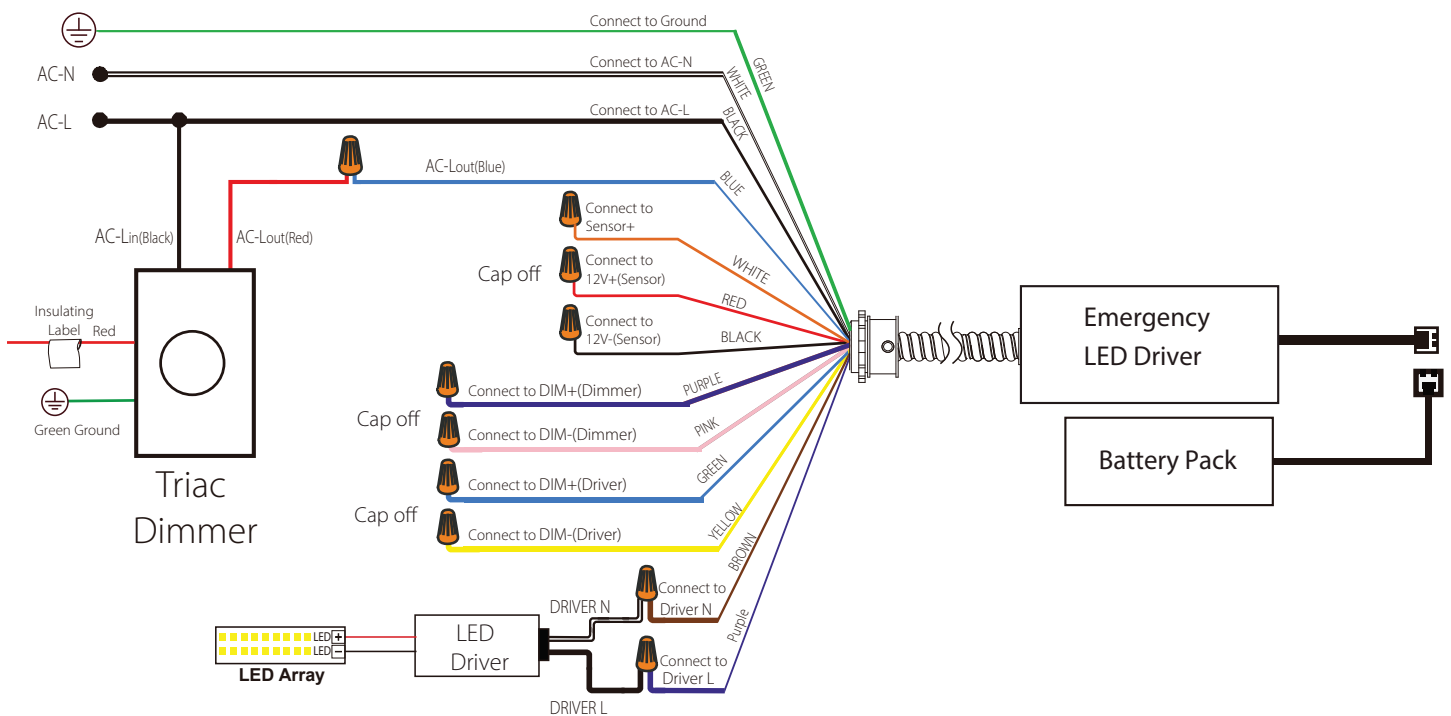
For luminaire with 0-10V LED driver and using 0-10V Dimmer (* 25W<Luminaire Power≤150W)

Emergency Driver Dim+ (Blue), Dim- (Yellow) has to connect with LED driver DIM+ and DIM- respectively, as shown.



5 With Triac Dimmer

For Triac dimmable LED luminaire with external LED driver(* Luminaire Power≤25W)



Note: verify compatibility before installation

6 For Non-dimmable LED luminaire with external LED driver(* Luminaire Power \leq 25W)

