TEKTRON POWER
RELIABLE POWER WHEN IT MATTERS MOST

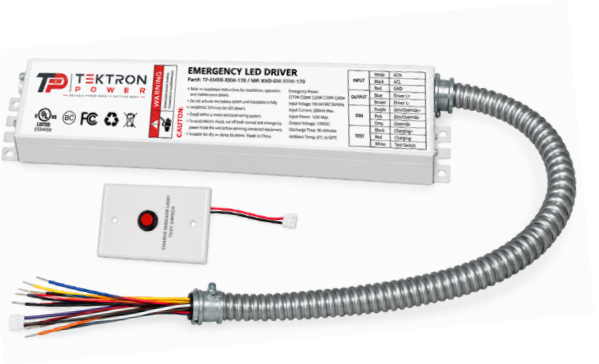
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EMERGENCY LED DRIVER - LINEAR HIGH BAY

TP-EMRB Series

Description

Tektron Power's TP-EMRB series emergency LED driver provides constant power battery backup for LED lighting fixtures. Designed for wiring directly to the LED driver's input, it automatically switches to its internal Li-ion battery backup during an AC power failure, delivering high-voltage DC output at 8W or 15W for a minimum of 90 minutes.



Application

For indoor linear LED fixtures, troffers, architectural recessed downlights, wrap fixtures, linear high bays, vapor-tight fixtures, and strip luminaires installed in commercial offices, educational facilities, healthcare environments, retail stores etc.

Quick Ship

TP-EMRB-25W-170
TP-EMRB-30W-170
TP-EMRB-40W-170

c UL us LISTED · BC · FC · 5 YEARS

Specifications Features

Controls

Under normal AC power, the unit continuously monitors utility power and charges the internal Li-ion battery pack while routing AC power to the normal LED fixture. Upon an AC power loss, the internal micro inverter automatically activates to deliver constant power at 170VDC.

Battery & Self-Test

The unit is powered by a high-grade lithium-ion battery system equipped with integrated over-temperature safety protection. It requires a 24-hour recharge period to deliver the certified 90-minute minimum emergency runtime.

Certifications

UL Listed for US and Canada. Listed to UL924 and tested to CSA C22.2 No. 141. Low energy consumption, CEC compliant, FCC Listed.

Installation and Mounting

Constructed with a slim, low-profile linear steel housing with mounting feet designed to fit inside standard ballast/driver wireway channels or remote mounted beside luminaires. Comes equipped with a pre-assembled 13.7-inch flexible metallic conduit containing all line, driver, dimmer.

Ordering Information

Example: TP-EMRB-40W-170

TP	EMRB	40W	170	40W	[BLANK]
Brand	Series	Wattage	Output Voltage	Battery Type	Input Voltage
TP- Tektron Power	**EMRB**- Emergency LED driver for Linear highbay	**15W**- 15 Watts **25W**- 25 Watts **30W**- 30 Watts **40W**- 40 Watts	**170**- 170VDC	**15W**- 2500mAh-14.8V **25W**- 4400mAh-14.8V **30W**- 5200mAh-14.8V **40W**- 5000mAh-18.5V	100-347VAC, 50/60Hz (standard)

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Specification Features

Input Voltage	100—347VAC, 50/60Hz
Input Power Rating	12W Max
Output Voltage	170VDC
Emergency Power	15W / 25W / 30W / 40W
Output Type	Constant power
Recharge Time	24Hrs
Emergency Operation	90 minutes
Warranty	5 Years

Electrical Specification

Input Voltage	100—347VAC, 50/60Hz
Input Current	200mA Max
Power Factor	>0.9 under 100—347Vac input
Output Voltage	170-175VDC
Output Current	140mA-145mA / 170mA-175mA
Output Power	25W / 30W
Conversion Time	<1s
Over Short	<10%
Emergency Operation	90 minutes
Battery	Li-ion
Recharge Time	24Hrs
Battery charging current	450mA Max.

Environmental Specification

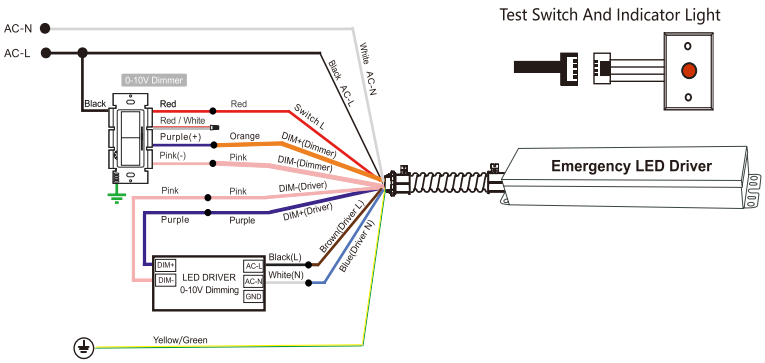
Operating Temperature	0°/32° to 50°/122°
Storage Temperature	−20/−4 to 50°/122°
Humidity	5% to 95%
Life rating	50,000 hrs @100Vac input, 100% load (60°C/140°F case temp)
Max. Ambient Temperature	55°/131° for battery

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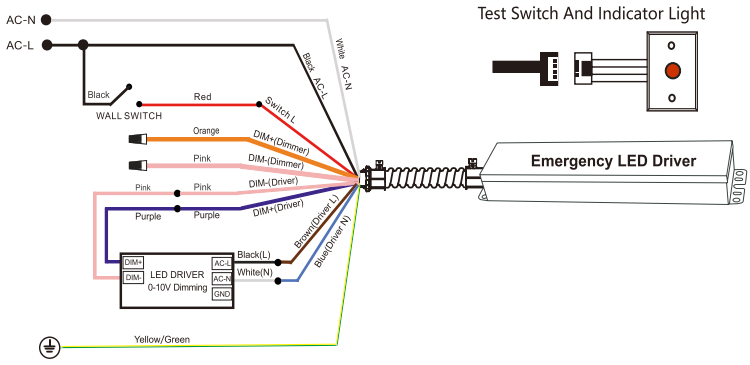
EMERGENCY LED DRIVER - LINEAR HIGH BAY

TP-EMRB Series

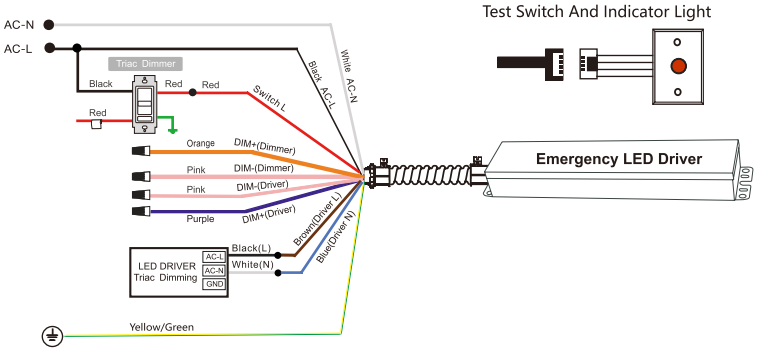
Installation Instructions



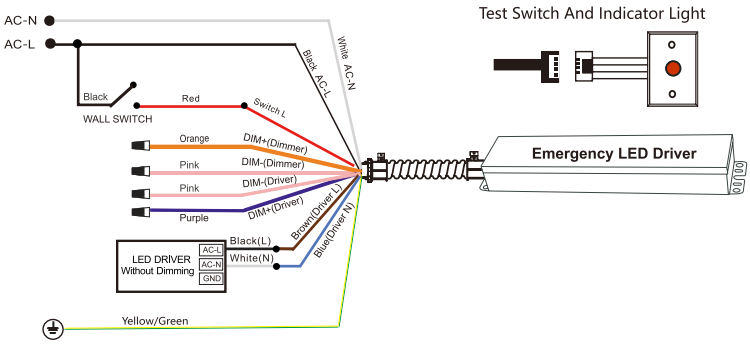
1. With 0-10v Dimmable LED Driver and using 10V Dimmer.



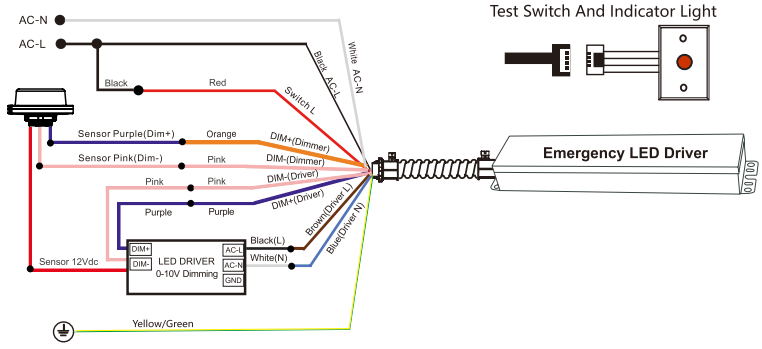
2. With 0-10v Dimmable LED Driver and using Wall Switch.



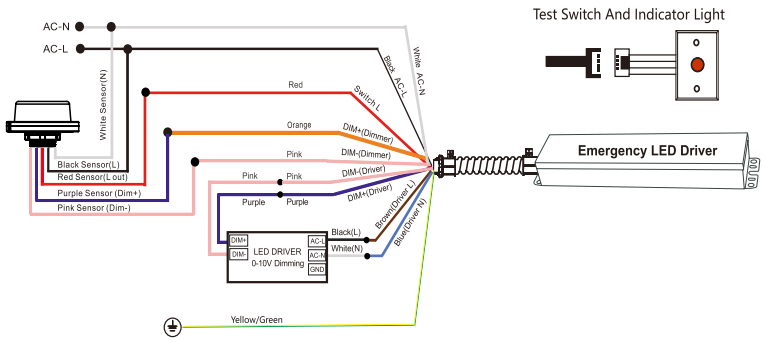
3. With 0-10v Dimmable LED Driver and using TRIAC Dimmer.



4. Without 0-10v Dimmable LED Driver and using Wall Switch.



5. With 0-10v Dimmable LED Driver and using DC 12V Sensor.



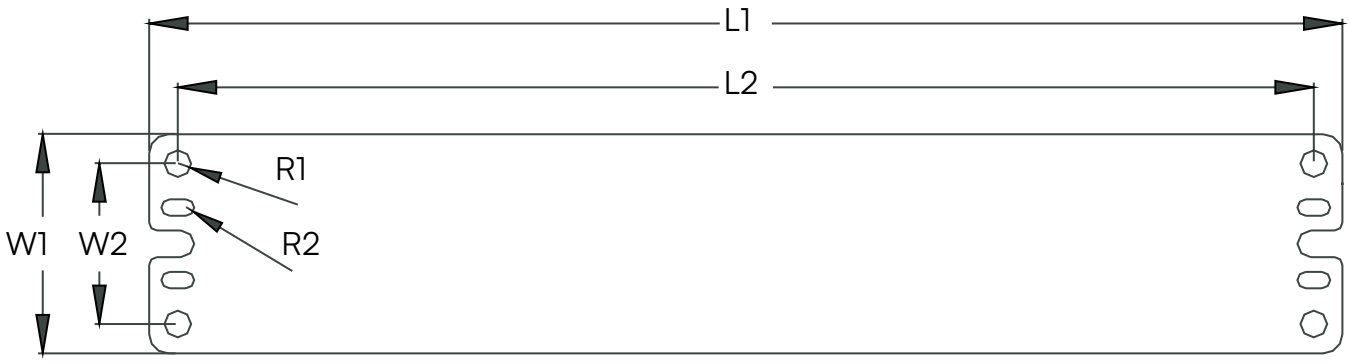
6. With 0-10v Dimmable LED Driver and using AC 120V Sensor.

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Dimensions



Part Number	Length (L1)	Length (L2)	Width (W1)	Width (W2)	Radius (R1)	Radius (R2)	Height (H)	Flexible Conduit	Conduit Diameter	Connector Diameter	Length of the wire
TP-EMRB	12.01 in	11.61 in	1.65 in	2.36 in	0.15 in	0.35 in	1.57 in	13.7 in	0.62 in	0.79 in	5.91 in

Operation & Self-Test

- The emergency LED driver contains a control/monitor circuit which will perform a 30-second discharge test once a month and a fully discharge test once a year. At this time, the unit simulate an AC power failure and automatically switch to emergency mode. During routine testing, the unit will monitor the operation of the LED load, battery voltage, and emergency duration, if the unit detect any problems, the indicator Will flash quickly.

Mode	Test Switch Operation	Indicator Status	Comment & Solutions
AC mode	Pressed the ON button on the remote	0.5s ON and OFF (slow-flashing)	The battery is under emergency test Press OFF on the remote again to toggle the battery charge
Emergency (1)	Not pressed	0.5s ON and OFF (slow-flashing)	Battery is automatically conhucting a emergency until Battery is fully discharged
Emergency (2)	Pressed the OFF button on the remote	OFF	Battery is turned off

CAUTION

- DURING AC OPERATION, DO NOT TOUCH OR REMOVE ANY WIRES — RISK OF ELECTRIC SHOCK.
- DURING EMERGENCY OPERATION, PRESS THE TEST BUTTON (OR OFF ON THE REMOTE) TO TURN THE LAMP AND INDICATOR OFF.
- BEFORE TOUCHING OR DISCONNECTING WIRES.
- THE VOLTAGE APPLIED TO THE DIMMING WIRES (DIM+, DIM−) MUST BE LESS THAN 20VDC.
- DO NOT USE THIS EQUIPMENT FOR OTHER THAN ITS INTENDED USE

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