

Quick Guide

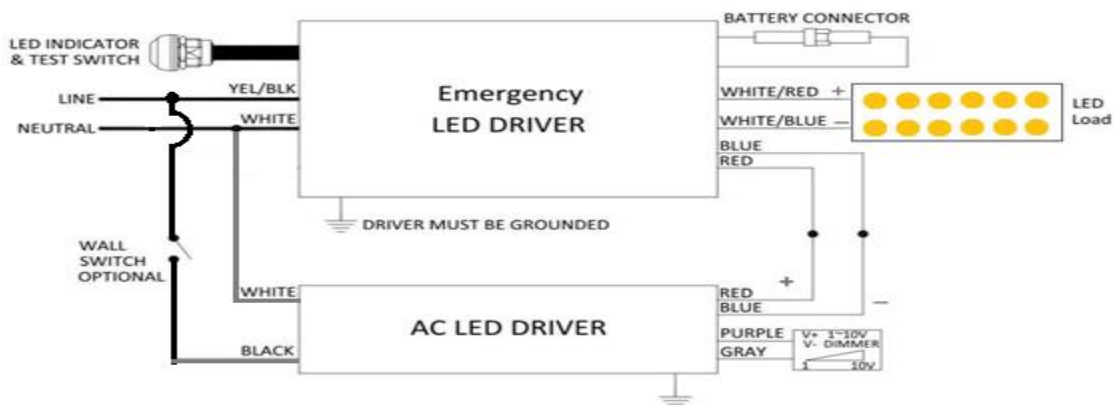
Selecting and Wiring - Assurance L -CEC Series LED Emergency Drivers

LED Emergency Drivers

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UL924—Constant Power

Model	Power (CP)	Vf (Vdc Output)	Size (in)	Oper. Temp (°C)	Features	Lumens (@140lm/W)
L4-A	4W	15-50	5.2 x 1.5 x 0.9	5 to 50	Non-Conduit	560
L5-CEC	5W	15-58	9.5 x 1.7 x 1.14	0 to 55	Non-Conduit	700
L10-CEC	10W	15-55	9.5 x 1.7 x 1.14	0 to 55	Non-Conduit	1400
L10-DC-CEC	10W	15-55	9.5 x 1.7 x 1.14	0 to 55	Dual Conduit	1400
L10-NP-CEC	10W	15-55	16.5 x 1.2 x 1.1	0 to 55	Narrow Case (LP) Non-Conduit	1400
L10-ET-CEC	10W	15-55	9.5 x 2.4 x 1.5	-20 to 55	Extended (Cold) Temp Non-Conduit	1400
L10-DC-2H	10W	15-55	12 x 1.7 x 1.14	0 to 55	Dual Conduit - 2 Hour	1400
L10-DC-CEC-SD	10W	15-55	12 x 1.7 x 1.14	0-55	Dual Conduit	1400
L10-CEC-SBN	10W	15-55	5.23" x 2.48" x 1.18" Encl 5.9" x 2.03" x 1.02" Batt	0-55	Non- conduit - Separate Battery	1400
L14-DC-CEC	14W	15-55	12 x 1.7 x 1.14	0 to 55	Dual Conduit	1960
L14-CEC	14W	15-55	12 x 1.7 x 1.14	0 to 55	Non- conduit	1960
L20-DC-CEC	20W	15-55	13.3 x 2.44 x 1.5	0 to 55	Dual Conduit	2800
L30-DC-CEC	30W	15-55	13.3" x 2.44" x 1.5"	0-55	Dual Conduit	4200
L30-C-HVO	30W	55-255	12.6" x 2.44" x 2.05"	0-55	Single Conduit	4200
L30-C-480	30W	15-55	12.6" x 2.44" x 2.05"	0-55	Single Conduit- 480Vac	4200
L30-C-HVO-480	30W	55-255	12.6" x 2.44" x 2.05"	0-55	Single Conduit- 480Vac	4200
L20-CB48	up to 20W	15-55	9.5 x 1.7 x 1.14	0 to 55	Non-Conduit - 48 Vdc input	up to 2800



BEFORE BEGINNING

- Disconnect AC Power from the LED Luminaire.
- Do not join the battery connector until installation is complete.

Step 1. LED Driver and LED Load Connections (typical)

- Disconnect the Normal Driver from the LED Load.
- Connect the Normal Driver to the Emergency Driver:
 1. Connect the (+) red wire from the Emergency Driver to the (+) wire of the Normal Driver.
 2. Connect the (-) blue wire from the Emergency Driver to the (-) wire of the Normal Driver.
 3. Connect the (+) white/red wire from the Emergency Driver to the (+) input of the LED Load.
 4. Connect the (-) white/blue wire from the Emergency Driver to the (-) input of the LED Load.

Step 2. Power Connections

- Disconnect the incoming neutral wire from the Normal Driver
- Connect the white wire from the Emergency Driver to the neutral of the Normal Driver and Line Neutral.
- Connect the yellow/black wire from the Emergency Driver to constant unswitched power from the circuit panel.
- Connect black wire from the Emergency Driver and the black wire of the Normal Driver to the wall switch (optional) as shown on the diagram. The maximum line current for the luminaire(s) can not exceed 5A. If total load current is greater than 5A contact factory for additional wiring diagrams

Step 3. LED Indicator / Test Switch and Battery Connector

- Mount LED Indicator / Test Switch in a location that is visible and accessible by maintenance personnel – in the fixture housing or remote on test switch plate.
- Plug in Quick Connect Illuminated Test Switch with the LED Emergency Driver.
- After normal power has been restored to the fixture, connect the battery connector.

Selecting the Correct L-Series LED Emergency Driver

LED Emergency Drivers enable LED fixtures with Class 2 and Class 1 AC Drivers, to be converted to Emergency Fixtures, providing 90-minute backup in the event of a power outage. Assurance Constant Power LED Emergency Drivers are UL Listed and can be field or factory installed.

1. Make sure the Emergency Driver is compatible with the AC Driver.

A. For Class 2 AC driver and LED Loads (Output Voltage not greater than 60VDC) standard L Series Models.

B. For Class 1 AC drivers and LED Loads- use HVO series where load voltage is between 50- 255 vdc.

B. The output of the Emergency Driver must not exceed the power of the AC Driver delivered to the LED Array.

Example: An LED fixture with a 20W AC Driver could use an 4W, 5, 10 or 20W Emergency Driver, but not a 25W Emergency Driver.

2. Calculating Emergency Lumen output:

Assurance Emergency Drivers provide constant power output for 90 minutes. To determine the Emergency Driver output in lumens, simply multiply the Luminaire efficacy (lumens / watt) times the Emergency Driver output (W).

3. Ensure that the emergency lighting has been selected, installed, and verified to meet local, state and national codes.

For more detailed instructions, please see L Series LED Emergency Driver Installation Instructions:

<https://assurancelighting.com/products/led-drivers.htm>

Or contact Assurance Emergency Lighting:

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