



Emergency Battery Backup High Voltage (G3)



EM8-H-170-HBF



Features

Situation 1 Without 0-10V dimming function

- Compatible for $\leq 8W$ LED luminaire with internal driver.

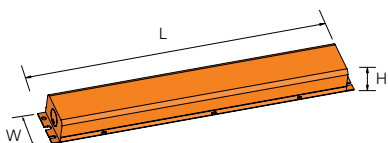
Situation 2 With 0-10V dimming function

- Minimum Dim-down Power $\leq$ Output Power of LED emergency driver.
- Recommended Compatibility: Up to 60W LED luminaire with 0-10v dimming.

(e.g: 60W LED panel, 10%~100% dimming range, and the minimum dim-down power is 6W. It can work since it is less than 8W LED emergency driver).

Specifications

Output Power:	8 Watts
Output Voltage:	170V DC
Input Current:	70 mA (Max)
Input Power:	3.2 Watts (Max)
Input Voltage:	100-277VAC, 50-60Hz
Emergency Operation:	≥ 90 Minutes
Standby Power:	$< 0.4W$
Operating Temp:	0°C to 50°C
Battery:	Lithium
Recharge:	24 hours
Luminaire Load Power:	100W (Max)
Certificate:	UL , CEC
Output Class:	UL LELV (Output protection self-resetting)
Warranty:	7 Years
Dimensions:	12.76"(L) $\times$ 2.13" (W) $\times$ 1.57" (H)



EM25-H-170-HBF



Features

Situation 1 Without 0-10V dimming function

- Compatible for $\leq 25W$ LED luminaire with internal driver.

Situation 2 With 0-10V dimming function

- Minimum Dim-down Power $\leq$ Output Power of LED emergency Driver.
- Recommended Compatibility: Up to 200W LED luminaire with 0-10v dimming.

(e.g: 200W LED highbay, 10%~100% dimming range, and the minimum dim-down power is 20W. It can work since it is less than 25W LED emergency driver).

Specifications

Output Power:	25 Watts
Output Voltage:	170V DC
Input Current:	110 mA (Max)
Input Power:	6 Watts (Max)
Input Voltage:	100-277VAC, 50-60Hz
Emergency Operation:	≥ 90 Minutes
Standby Power:	$< 0.4W$
Operating Temp:	0°C to 50°C
Battery:	Lithium
Recharge:	36 Hrs
Luminaire Load Power:	300W (Max)
Certificate:	UL , CEC
Output Class:	UL LELV (Output protection self-resetting)
Warranty:	7 Years
Dimensions:	12.76"(L) $\times$ 2.13" (W) $\times$ 1.57" (H)





Operation

When AC power fails, Litelume's EM series emergency LED driver immediately switches to the emergency mode, operating the LEDs at a reduced lumen output for a minimum of 90 minutes. When AC power is restored, the emergency driver automatically returns to the charging mode.

Application

Used on any 1~200W LED luminaire with 0-10V dimming.

Mounting Configuration

Each unit is available in 4 different mounting configurations to accommodate various performance requirement and fixtures types.

Dual Flex (Standard) Provides dual flex for wiring to both the fixture or driver compartment and test accessories.	Integral Non-Flex (Optional) Allows for integral installation within the driver compartment. May also be mounted atop the fixture when used with a TMK cover accessory.
	
Single Flex (Optional) Mounts to the junction box and provides flexible conduit for remote mounting of the test accessories.	Top-Mount Non-Flex (Optional) Top-mounting option for running wires directly into the driver compartment. Test accessories are then installed within the fixture.
	

Code-Required Testing

• Initial Self-test after installation

It will perform a functional test in 3 seconds after the driver installed to check the wiring and battery output when work. The indicator LED will be off or flicker in case of a failure or an error.

•Second Self-Test In 120 Minutes

It will perform second test in 120 minutes to check again. Upgrade in Gen 3: Repeat 4 times in every 120 minutes if fail in the second test.

•Monthly Self-Test

It will automatically perform a test every 30 days with a duration of 3 seconds, in which the wiring and battery output are checked. In case of a failure or an error, the indicator LED will be off or flicker.

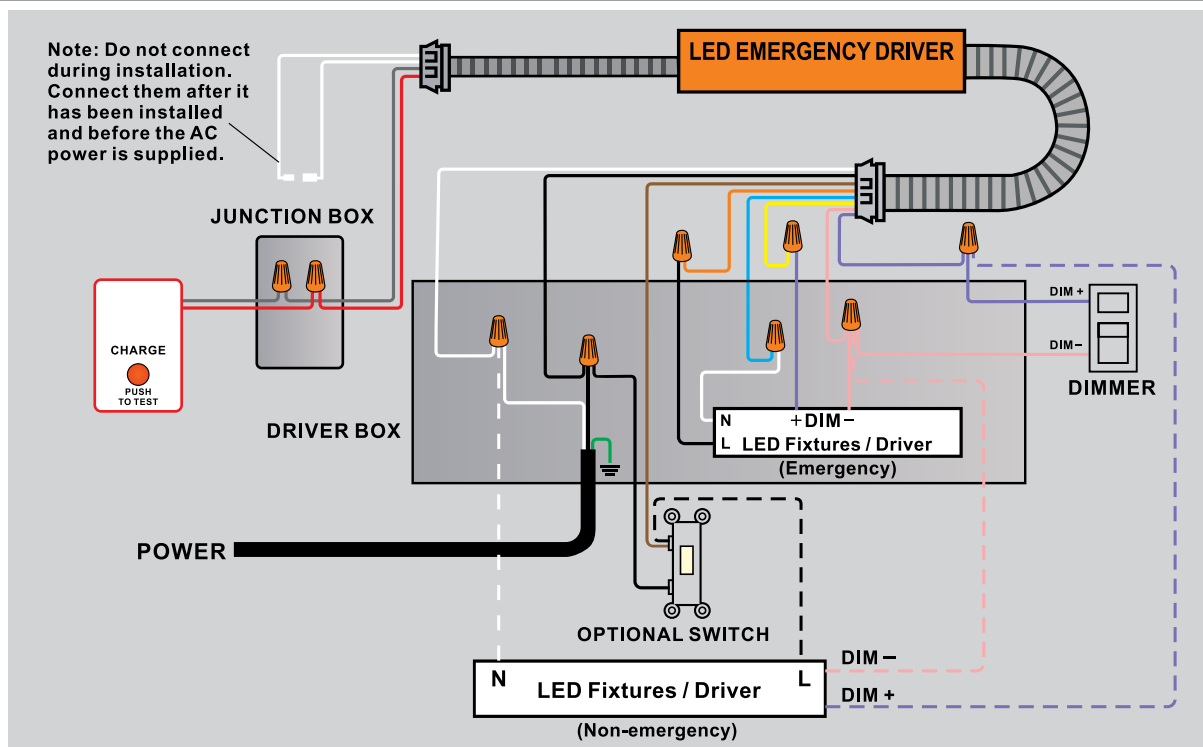
Indicator Status

LED Indicator Status	EM Driver Status/Mode
Solid Red ON	System OK/AC OK
None (LED OFF)	Normal working on EM mode
Flashing Red, 1s on/1s off (cycle)	Battery voltage is too low
Flashing Red, 0.3s on/0.3s off (cycle)	System NG;Battery not detected, check battery connection;

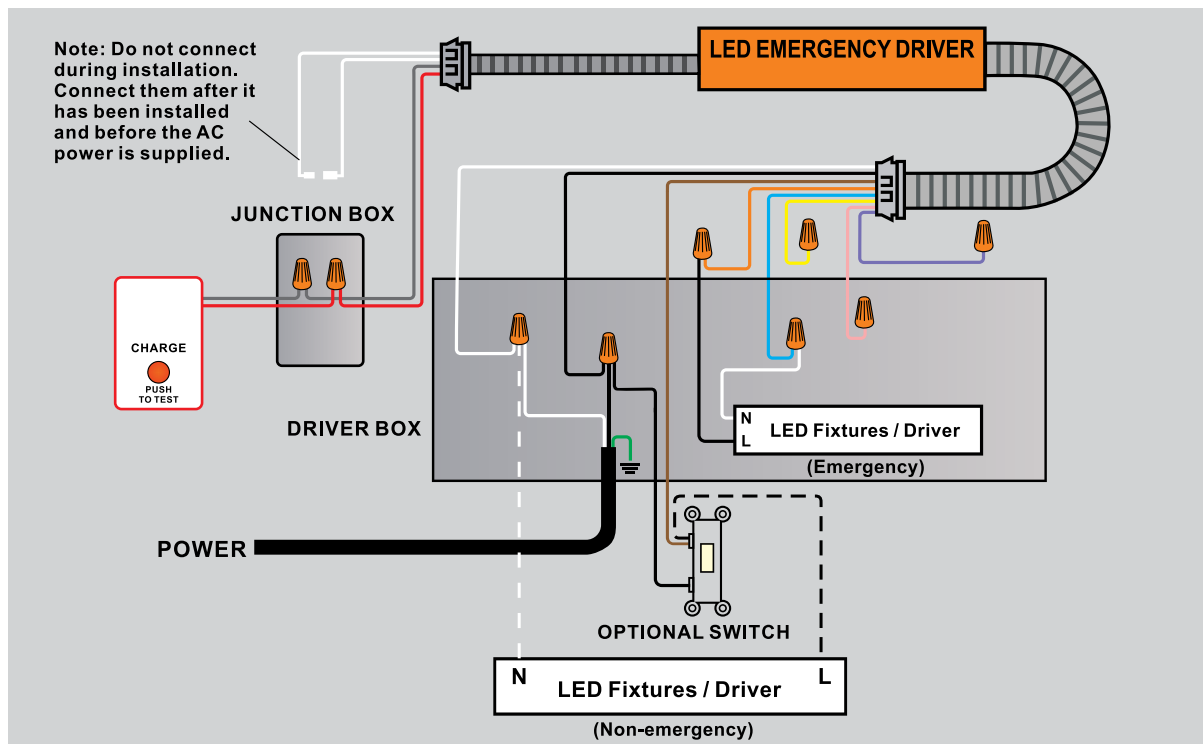


Wiring Diagram

Power of luminaire with 0-10V dimming > Power of emergency driver.



Power of luminaire ≤ Power of emergency driver.





Project Name	
Catalog #	
Job Type	
Prepared By	
Notes	

Ordering Information

Part #	Description
EM8-H-170-HBF	Emergency Battery Back Up, 8W, High Voltage, 170V DC, Field Installed, 120-277V, 90 Minutes
EM25-H-170-HBF	Emergency Battery Back Up, 25W, High Voltage, 170V DC, Field Installed, 120-277V, 90 Minutes