

Self- Diagnostic Emergency LED Driver

General Product Information:

- Automatic Self-Test technology
- Monthly and Annual testing
- Microprocessor design for CEC compliance
- Auto adjusting Class 2 output
- Maintenance free Nickel Metal Hydride battery
- USGBS/Green Building Council Certified
- CEC Title 20
- Constant Current for variable illumination



8.54x2.07x2.28 in.

iES-H0** -LM



14.29x1.17x 2.10 in.

iES-H0** -HM

Input Specifications:

- Input Voltage: 120 - 277
- Freq. Range: 50 - 60 Hz
- Input Power: Max. 85mA; 3.9W

Output Specifications:

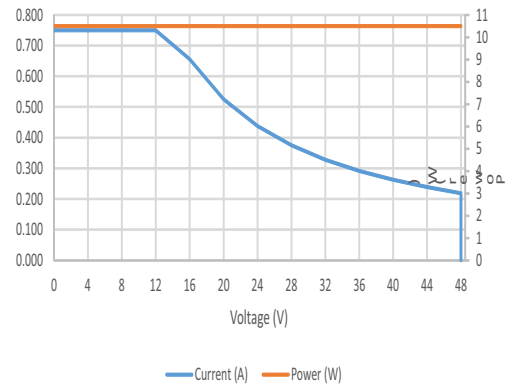
- Output Voltage: 12 - 48VDC
- Output Current: 750mA - 210mA, Programable
- Max. Wattage: 7 to 10 Watts

Environmental Specifications:

- Ambient Operating Temp. 0 to 50 C
- Safety Approval: UL/cUL Listed
- EMI Compliance: FCC Part 15, Class A



10.5W Maximum Output Power



Model No.	Emergency Power	Output Range Vdc	Factory Default Output mA	Max. Output W	SW1 SW2 Sw3 SW4			
					Chart below are factory standard outputs			
iES-H007L-HMx	7.0W	16.0	440	7	On	Off	Off	Off
		24.0	290	7	Off	On	Off	Off
iES-H007L-LMx	7.0W	36.0	195	7	Off	Off	On	Off
		48.0	145	7	Off	Off	Off	On

Model No.	Emergency Power	Output Range Vdc	Factory Default Output mA	Max. Output W	SW1 SW2 Sw3 SW4			
					Chart below are factory standard outputs			
iES-H010L-HMx	10.0W	16.0	625	10	On	Off	Off	Off
		24.0	425	10	Off	On	Off	Off
iES-H010L-LMx	10.0W	36.0	280	10	Off	Off	On	Off
		48.0	210	10	Off	Off	Off	On

Self- Diagnostic

Emergency LED Driver - Retrofit Solutions

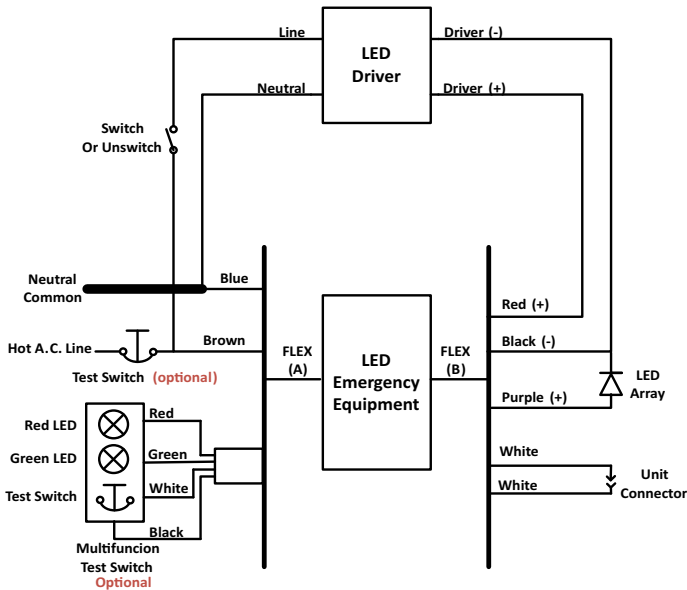
Auto Testing - Self Diagnostic Operation

This unit automatically performs a 90-second discharge test every 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 lighting fixture, internal battery voltage, discharging current, and emergency duration. If the emergency system functions properly, then the unit will return to normal mode. Should the unit detect any problems, the indicator light will flash continually until the condition has been corrected and the unit passes the next test (see LED indicator guide).

- If the condition has not been corrected by the next scheduled test, the unit will once again detect the failure and signal the failure indicator.
- To cancel a test, press and hold the Multifunction Button ONCE for less than 1 seconds.
- To perform manual self-test push and hold Multifunction button for minimum of 3 seconds. Once button is released emergency driver will perform the 90 second diagnostic test. After Self-testing is completed, the indicator light will flash per testing results (see LED indicator guide).
- You can configure the Auto Testing in to Wireless Network version by flip the deep switch and adding antenna at any time. The unit will join the network to perform remote testing and reporting functions.

NOTE: For short-term testing of the emergency function, the battery must be charged for at least one hour. The emergency driver must be charged for at least 24 hours before conducting a long-term test.

Field Installation Wiring Diagram



LED Indicator Guide

STATUS INDICATORS		PROBLEM	CORRECTIVE ACTION
Green Light	Red Light		
ON steady	OFF	NONE	None, Unit is fully charged and working correctly.
Flashing Slow (2s interval)	OFF	NONE	None, Unit is in Charging mode.
OFF	ON steady	NONE	None, AC is lost and Unit is in Emergency Discharging mode.
OFF	Flashing Slow (2s interval)	NONE	None, Unit is in Self-testing mode
Flashing Fast (0.5s interval)	OFF	NONE	Press test button to clear message. Unit is passed Self-testing.
OFF	Flashing Fast (0.5s interval)	Self-testing Fail	1. Check the wiring; 2. Allow unit to charge for 24 hours. Perform manual test. If failure mode continues, emergency driver should be replaced;
OFF	OFF	Battery Failure	1. Check the battery Connector 2. If battery connection is good, the battery or emergency driver should be replaced

LED Tube Retrofit Solution:

LED: SMD2835 / CRI80 / 120° beam angle
 Q'ty: 48pcs / 36VDC
 Current Range: 150-400mA
 Efficacy: 120lm/W approx.
 Available in 4000K / 5000K

