FM-FMS

Split Emergency Driver











Applications: Canopy, indoor and Outdoor linear, Wallpack

PERFORMANCE SUMMARY

The EM-EMS series emergency LED driver is for field and factory installation. It's small size and split battery allows integral installation in most Sunled 0-10V dimmable fixtures for both normal and emergency operation.

This unit contains a battery charger and inverter that operates a load of 8W or 18W with constant power at a rated output voltage of 170VDC. The patented constant power circuitry of the module maintains uninterrupted illumination levels during power failure

Features

- Constant power output in emergency mode
- Split two piece design with smaller dimensions for integral enclosures
- Self-sensing output voltage circuitry maximises product compatibility
- High temperature recyclable lithium battery technology enables significantly decreased enclosure size and longer operational life
- Quick connect junction box on driver side reduces installation time

Self Diagnostic

The integrated self-diagnostic circuitry will automatically conduct 1 monthly 30 second and annual 90 minute tests to verify proper emergency capability per life safety code requirements NFPA 101 Life Safety Code outlines the following schedule:

Monthly

During AC mode, the system conducts a 30s self discharge test of the emergency LED driver every 30 days and automatically restores to normal charging after full discharge

Annually

During AC mode, the system conducts a 90 minute self discharge test of the emergency led driver every 365 days and automatically restores to normal charging after 30 seconds discharge

Operation

Normal Supply

During normal AC supply conditions the LED driver load will operate as usual and emergency driver remains in charging mode

Emergency Mode

When AC power fails the driver automatically switches to emergency mode, keeping the LED load illuminated at a reduced lumen output for a minimum of 90 minutes. During this time, the indicator will flash slowly (light on for 2 seconds, off for 2 seconds). When AC power is restored, it will return to charging mode and the indicator light remains on

Specification

Input Voltage: 120-347VAC 50/60Hz

Input Power: 7W Max Output Voltage: 170VDC Input Current: 100mA

Output Power: 8,18W Power Factor: 0.85

EMI Radiated/Conducted: FCC Class A Charge and EM Modes

Surge Protection: Line-Neutral 3kV Emergency Operation: 90 minutes Charge Time: 24hr Recharge

Ambient Temperature: Lithium 5°C to +50°C (41°F to 122°F) Approval: cUL Listed for Factory and Field Installation





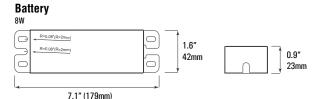
ORDERING CODE

UNDENING C	UDE				
EM-EMS o	at. 18 V	ww			
EM-EMS	Emergency Series				
	EM-EMS	Integrated Emergency Driver			
18	Output				
	8	8W/170VDC			
		Up to 100W Driver			
	18	18W/170VDC			
		Up to 200W Driver			
WW	Test Switch				
	WW	Wired			
	WL	2.4GHz Remote			

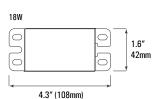
DIMENSIONS

Weight: (May vary with accessories) 1.3lbs (0.6kg)

7.3" (186mm)



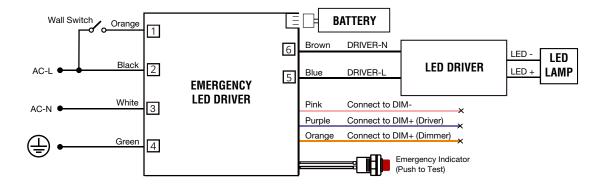
0.9"



WIRING DIAGRAM

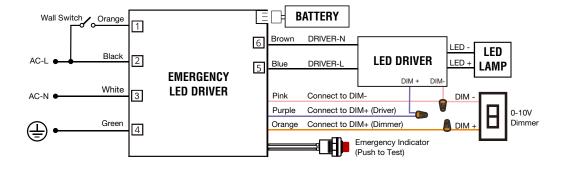
LED Fixture < Emergency Driver

Model No	Input Voltage	Input Power	Input Current	Output Voltage	Output Power	Application
EM-EMS-8W	100-347VAC	7W Max	< 100mA	170VDC	8W	< 8W Fixture With No Dimming
EM-EMS-18W	100-347VAC	7W Max	< 100mA	170VDC	18W	< 18W Fixture With No Dimming



LED Fixture > Emergency Driver

Model No	Input Voltage	Input Power	Input Current	Output Voltage	Output Power	Application
EM-EMS-8W	100-347VAC	7W Max	< 100mA	170VDC	8W	< 100W Fixture With No Dimming
EM-EMS-18W	100-347VAC	7W Max	< 100mA	170VDC	18W	< 200W Fixture With No Dimming





The LED fixture must be connected to 0-10V driver when the fixture power is more than the emergency backup unit power. Refer diagram above to avoid early failure not covered under warranty

INDICATOR OPERATION

Mode	Test Switch	Wireless Remote	Indicator Status	Solution		
AC Mode 1	Not Pressed	Not Pressed	On Not Flashing	Driver Charging		
AC Mode 2	Pressed Once	Pressed Button A Once	2s On 2s Off	30s Short Term Test		
AC Mode 3	Pressed 2x In 2s Sequence	Pressed Button B Once	2s On 2s Off	Long Term Test To Discharge		
Emergency Mode 1	Not Pressed	Not Pressed	2s On 2s Off	Emergency Mode To Discharge		
Emergency Mode 2	Pressed Once	Pressed Button A Once	Off	Driver Is Off		
Problem	When indicator flashes 0.2s on and 0.2s off or turns off the emergency backup is damaged and should be replaced					

