



Certified LED Lights®

Product Data Sheet
Emergency Driver

For use with: 4Ft = 8W



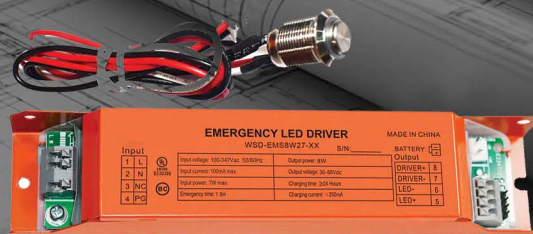
Linear Strips lights



wrap lights



vapor tight lights



Product Overview

The 8W emergency driver EMS8W27 is a compact battery-backup power module designed to provide reliable emergency illumination for LED fixtures such as 4ft vapor-tight luminaires and 4-foot linear strip lights. It operates across a wide universal input voltage range from 100 to 347 volts AC, making it compatible with most commercial and industrial electrical systems.

When a power outage occurs, the driver instantly switches the connected LED fixture into emergency mode and supplies a constant output of approximately 8 watts of emergency power, allowing the light fixture to remain illuminated for a minimum of 90 minutes.

These drivers typically include a test switch and LED indicator light for system diagnostics, allowing maintenance personnel to verify battery status and perform required periodic testing. The system normally requires approximately 24 hours for a full battery recharge after installation or after a discharge event.

Because of its constant-power output design, the emergency driver ensures stable light output even as the battery voltage decreases during discharge, helping maintain visibility along emergency exit routes. Overall, the EMS8W27 8W emergency driver provides a cost-effective and code-compliant solution for converting standard LED vapor-tight fixtures, 4-ft linear strip lights and 4ft wrap lights into emergency-ready lighting systems, ensuring occupant safety and illumination continuity during unexpected power failures in commercial and industrial facilities.

Applications



Schools



Offices



Commercial
Buildings



Healthcare

Main Features

- * External Lithium-Ion battery - 7.2 V / 2500mAh
- * Battery protections: over charge protection, over discharge protection, short circuit protection
- * The batteries meets 500 Cycles of standard CH and standard DCH
- * Universal 100-347V, 50-60 Hz input
- * Test Switch indicator light. Indicator shows a variety working modes
- * Output power: 8W ; Output current and voltage: 160-320mA - 36-60 Vdc
- * 90 Minute minimum emergency operating time over full temperature range
- * 24 Hour maximum battery recharge time
- * 5 year warranty on all electronics and housing

Product Warranty



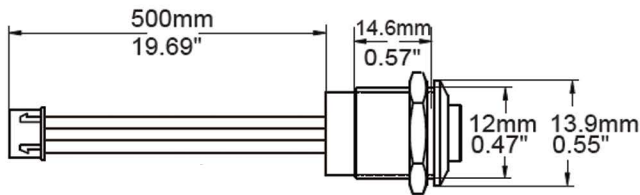
Highlights and Certifications



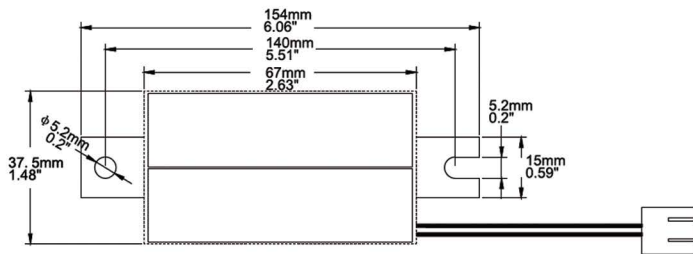
UL listed

Dimensions

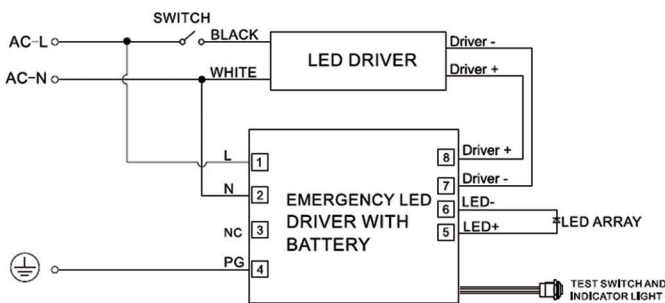
M12 test switch



Battery



Wiring Diagram



Ordering Guide

PART #	Output Voltage	Output Power	Voltage
EMS8W27-XX	36-60 Vdc	8W	100-347V

Operation

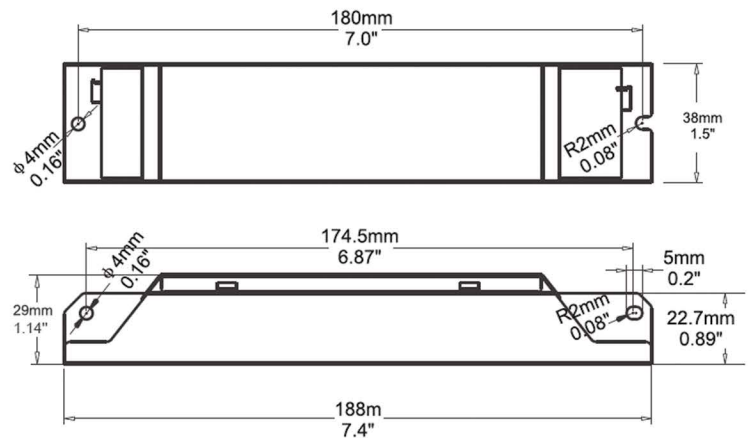
AC Operation:

When AC power is present, the LED load from the LED driver is in normal power supply mode. The AC LED driver output current can not exceed 150W or 4A. The emergency driver is charging in a standby mode. The red LED light is on to indicate that it is charging.

Emergency operation:

When the AC power goes out, the emergency driver detects the AC power outage and automatically switches to the working emergency mode. The red light is off. When the AC power is restored, the emergency driver switches back to AC power and start recharging the driver. The red light turns on.

Case



- 1- Do not mate connectors until installation is complete and AC power is supplied
- 2- Test accessory leads - observe proper polarity wiring