

TECHNICAL PRODUCT CATALOGUE

Universal LED Emergency Driver

48W

Emergency Lighting LED Driver + Battery Kit



3 h

Rated Duration

NiCd

Battery Type

3-190 VDC

LED Module FV

SELV

Output < 60 VDC

Submission / Approval Use

- Self-contained emergency lighting application
- Non-maintained operation
- Luminaire installation
- Clean catalogue generated from supplied product data

Product Identification

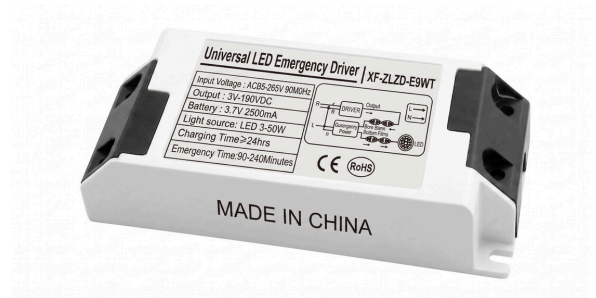
Product Type	Universal LED Emergency Driver
Power Rating	48 W
Emergency Duration	3 hours rated duration
Battery	High-temperature NiCd D cells
Origin	Made in China

Catalogue Sections

01 Overview / 02 Technical Data / 03 Protection & Safety / 04 Battery & Kit / 05 Reference Image

1. Product Overview

The Universal LED Emergency Driver 48 W is designed for self-contained emergency lighting luminaires. The kit includes an emergency lighting LED driver, a battery pack for rated emergency duration, and an indication LED.



01

Operating Mode

Non-maintained emergency operation for luminaires.

02

Compatibility

For dimmable and non-dimmable constant current LED drivers.

03

Installation

Designed for luminaire installation.

Key Properties

- Non-maintained operation
- 3 h rated emergency duration
- Compatible with dimmable and non-dimmable constant current LED drivers
- 3-pole technology: 2-pole LED module changeover and delayed power switching
- Automatic output shutdown if LED load is out of range
- Constant power output
- Maximum light output for all LED modules
- Electronic charge system
- Deep discharge protection
- Short-circuit-proof battery connection
- Polarity reversal protection for battery
- For luminaire installation

Typical Applications

01

LED Luminaires

Emergency back-up for LED light fittings.

02

Self-contained Systems

Emergency system integrated inside the luminaire.

03

Mains Failure Response

Emergency operation when mains power fails.

2. Technical Data

Product data and operating characteristics

General Technical Characteristics

Product name	Universal LED Emergency Driver
Rated power	48 W
Operating mode	Non-maintained operation
Emergency rated duration	3 h
Emergency time label	180 - 240 minutes (as shown on product label)
LED driver compatibility	Compatible with dimmable and non-dimmable constant current LED drivers
LED module forward voltage	3 - 190 VDC
Output safety classification	SELV for output voltage < 60 VDC
Output control	Constant power output
Load protection	Automatic shutdown of output if LED load is out of range
Changeover technology	3-pole technology: 2-pole LED module changeover and delayed power switching for LED driver
Installation	For luminaire installation

3. Protection & Safety

01**Charge control**

Electronic charge system

02**Battery protection**

Deep discharge protection

03**Battery connection**

Short-circuit-proof battery connection

04**Reverse polarity**

Polarity reversal protection for battery

05**Out-of-range LED load**

Automatic output shutdown

Notes for Approval

- Final wiring, driver compatibility, and luminaire integration shall be checked by the electrical contractor before installation.
- Any project-specific certificates or test reports required by the consultant shall be submitted separately if requested.
- Battery replacement and maintenance shall follow the supplier instructions and project maintenance plan.

Submission Statement

The proposed Universal LED Emergency Driver 48 W is submitted for use as a self-contained emergency lighting LED driver with 3-hour rated emergency operation and integrated NiCd battery system.

4. Battery System & Kit Contents

Battery Data

Battery cell type	High-temperature cells
Battery chemistry	NiCd batteries
Cell size	D cells
Rated emergency duration	3 h
Guarantee	3 year guarantee

NiCd
High-temperatureD cells

3 h rated emergency duration

3 year guarantee

Kit Contents

- 01

Item 1

Emergency lighting LED driver
- 02

Item 2

Battery pack for 3 h duration
- 03

Item 3

Indication LED

Submission Summary

UniversalLEDEmergencyDriver 48 W is presented as a compact emergency lighting kit consisting of the LED driver, battery pack for 3 h duration, and indication LED. Battery chemistry is NiCd with D cells as supplied.

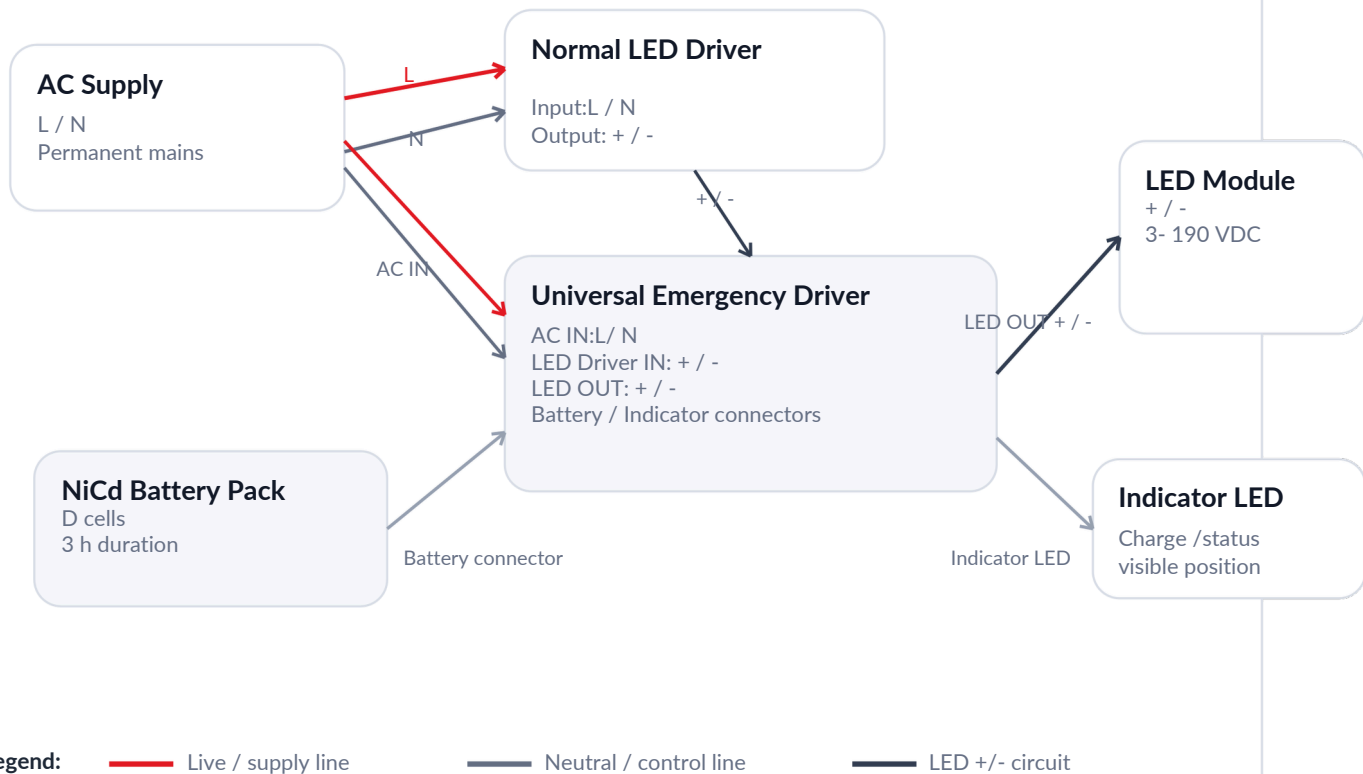
5. Typical Wiring Diagram

Indicative connection layout for emergency lighting installation

Important Note

This wiring diagram is typical/indicative for catalogue submission only. Final wiring shall follow the supplier terminal marking, product label, approved shop drawings, and site electrical regulations.

Typical Emergency Lighting Connection



Connection Schedule

Connection	Description
AC Input L / N	Permanent mains supply to the emergency driver and normal LED driver as required.
Normal LED Driver Output + / -	Connect through the emergency driver/changeover terminals before the LED module.
Emergency Driver LED Output + / -	Connect to the LED module according to polarity and approved wiring arrangement.
Battery Pack	Connect the supplied NiCd battery pack only to the designated battery connector.
Indicator LED	Install the indication LED in a visible position for charge/status indication.