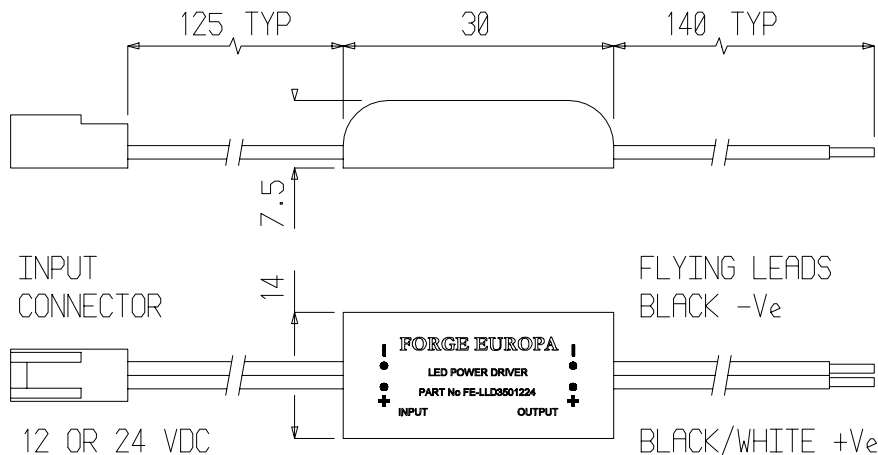


Features

- High efficiency switch mode power supply
- Highly stable constant current output
- Suitable for driving 1 to 3 LED lamps at 350 mA - 12 VDC supply
- Suitable for driving 1 to 6 LED lamps at 350 mA - 24 VDC supply
- Class III built in converter
- Protection against over-load
- Short circuit protection
- Protection against over temperature
- Automatic resetting after fault removal
- Long life > 3 years
- Small fully enclosed housing

Package Outline



Applications

Specifically designed to drive high power LED lamps from a low voltage supply including

- Spot lighting systems
- Architectural lighting systems
- Point of sale signs
- Display illumination

Mechanical information

Dimensions	See package outline
Unit weight	5 g
DC input connections	Female connector
	Mates with 2.54mm pitch Molex KK series male plug or equivalent
	Example of mating parts
	Molex 22-05-7028 - right angle PCB mount
	Molex 22-27-2021 - perpendicular PCB mount
Lamp output connections	Flying leads

Lamp Electrical Connections

Only LED lamps must be connected to the power driver

A minimum of one 1W LED lamp must be connected to the power driver

A maximum of three 1W LED lamps can be connected with a 12 VDC input

A maximum of six 1W LED lamps can be connected with a 24 VDC input

The LED lamps must be connected in series (see sheet 2)

The power consumption of the lamps must not exceed 3 W for 12 VDC input

The power consumption of the lamps must not exceed 6 W for 24 VDC input

Approvals     **SELV** 

It is the responsibility of the customer to verify the suitability of the product for the application.

Description

The LED Power Driver FE-LLD3501224 is designed for driving Light Emitting Diode (LED) lamps from a 12 or 24 VDC supply. The driver is a switch mode power supply design having a constant current output of 350mA.

An electronic protection circuit switches off the LED Power Driver in case of the following problems:

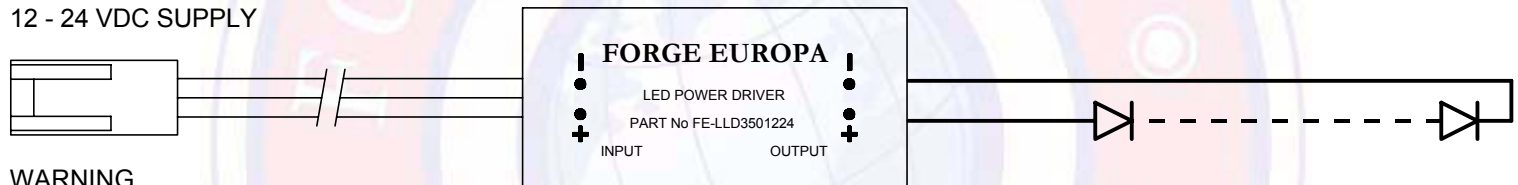
- Short circuit
- Open circuit
- Secondary circuit overload
- Thermal overload

After faults are removed the LED Power Driver is ready for operation.

Installation information

- The unit conforms to the following:
 - 2004/108/EC directive for electromagnetic compatibility
 - 73/23/EEC low voltage directive.
- The LED Power Driver is designed for used with LED lamps only.
- The LED Power Driver is only suitable for indoor use.
- The LED Power Driver should be prevented from over heating.
- The connected load must not fall below 1W or exceed 3W for a 12 VDC supply.
- The connected load must not fall below 1W or exceed 6W for a 24 VDC supply.
- Wire the LED lamps to the LED Power Driver with correct polarity according to the connection diagram.
- If the LED Power Driver is used for purposes other than originally intended or is connected incorrectly no liability can be taken for possible damages caused.

Connection Diagram



WARNING

THE SUPPLY MUST ONLY BE SWITCHED ON THE INPUT SIDE OF THE DRIVER. DO NOT DISCONNECT / RE CONNECT THE LEDs WHILST THE DRIVER IS POWERED.

12 VDC SUPPLY
350 mA - 1 to 3 OFF 1W LEDs - 10.7 VDC MAX V_f
24 VDC SUPPLY
350 mA - 1 to 6 OFF 1W LEDs - 23.0 VDC MAX V_f

Specification

Characteristic	Condition	Symbol	Rating	Units
Input voltage range		V_{in}	12-24	VDC
Power output range	12 VDC supply	P_{och}	1 min - 3 max	W
Power output range	24 VDC supply	P_{och}	1 min - 6 max	W
Output current	Steady state	I_o	350 \pm 10%	mA
IP Rating			IP20	
Operating ambient temperature		T_a	-20 to +50	$^{\circ}$ C
Storage Temperature		T_s	-20 to +80	$^{\circ}$ C
Case temperature		T_c	+65 max	$^{\circ}$ C