

## Product data sheet: OT FIT 150/220-240/700 D LT2 IND L

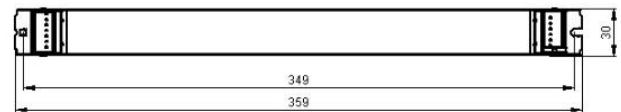
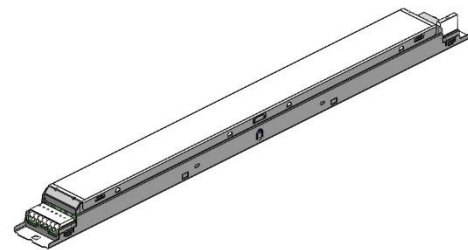
Constant current LED driver w NFC – non isolated  
Wide operating area up to 1000mA

### Made for Industry applications

Very high robustness, reliability, operating area & energy saving potential thanks to high efficiency and CLO integrated.  
8 year components guarantee, 10 year system guarantee with PrevaLED Linear G4 and CLO enabled.  
Flexible and future proof current setting via NFC.

### Benefits

Wide operating range: 250 – 1000 mA , 64 – 300 V  
Wide ambient temperature range: -40...+70 °C  
Current Set via LEDSet2 or NFC / CLO & EL via NFC  
In-rush current limiter integrated  
Extremely long lasting & highly reliable (Industry application)  
4kV surge capability (symmetric and asymmetric)  
Suitable for emergency lighting units



Housing material: metal, white painted

### Applications

Linear and Highbay industrial lighting  
Trunking systems – Battens – Light Lines – Waterproof - Highbay

### Approval marks & Symbols

CE, ENEC, VDE-EMC, RMC, CCC, ,  In preparation, if not already printed on product label

### Product Features

- 150W output current range 250 – 1000 mA
- 100'000 h lifetime at  $t_c = 75^\circ\text{C}$
- Very high efficiency up to 96%
- In-rush current limiter integrated
- Suitable for emergency lighting
- 200'000 switching cycles
- 8 years guarantee @  $t_c -10^\circ\text{C}$
- Very wide ta range -40...+70 °C
- $t_c \text{ max} = 85^\circ\text{C}$
- Very low ripple  $\leq 1\%$
- LEDSet2 & NFC
- 4kV surge protection
- CLO integrated
- 10 years guarantee w PL Lin & CLO

# Electrical Specifications

	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	AC or RAC
	DC voltage range	176 – 276	V	DC
	Maximum voltage	350	V <sub>AC</sub>	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.68	A	
	Total Harmonic Distortion (THD)	7	%	Typical value, full load
	Power factor	> 0.98		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	Up to 96	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Starting time	≤ 0.6	s	
	Power loss	11	W	Maximum full load
	Protection class	I		PE can be connected either to terminal or housing
	Inrush current	5	A pk	T <sub>h</sub> = 1700 μs
	Max. units per circuit breaker	B16: 32; B10: 18		
OUTPUT	PE current	< 0.5	mA	Through PE
	Nominal voltage range	64 – 300	V	
	Maximum voltage	< 340	V <sub>DC</sub>	w/ no load
	Nominal current range	250 – 1000	mA	Default output current: 250mA LEDset open: 250 mA; LEDset short: 250 mA
	Current accuracy	+/- 3	%	With LEDset: +/- 5%
	Current ripple	< 1	%	LF ripple <1%, HF ripple <4%
	Nominal power range	43 – 150	W	
	Maximum power	150	W	
	Emergency Output Factor (EL)	15	%	ta = -40...+50°C: EOF <sub>I</sub> = 1 ta = +50...+80°C: EOF <sub>I</sub> = 0.45
	Galvanic isolation	no		Non-isolated
ENVIRONMENT	Ambient temperature range t <sub>a</sub>	-40 ... +70	°C	
	Maximum case temperature t <sub>c</sub>	85	°C	Measured on t <sub>c</sub> point indicated of the product label.
	Max. case temp. in fault condition	110	°C	
	Storage temperature range	-25 ... +85	°C	
	Relative humidity	5 ... 85	%	Not condensing
	Surge transient protection	4   4	kV	L/N   LN/PE acc. To. EN 61547 Clause 5.7
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 200'000		
	Expected lifetime	50'000	hrs	t <sub>c</sub> = 85°C, 0.2% / 1'000 h failure rate, 24h ON
100'000		t <sub>c</sub> = 75°C, 0.2% / 1'000 h failure rate, 24h ON		

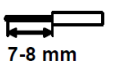
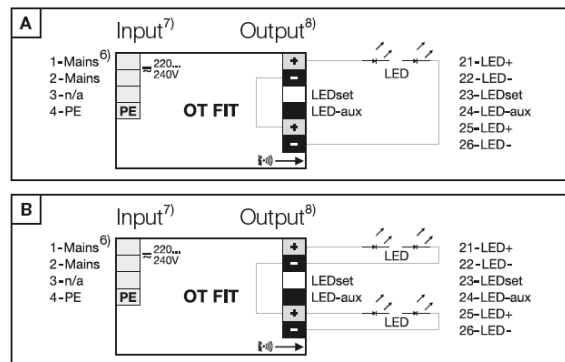
## Wiring Diagram

Terminal:  
Max. cable length - system:  
Geometry (l x b x h):

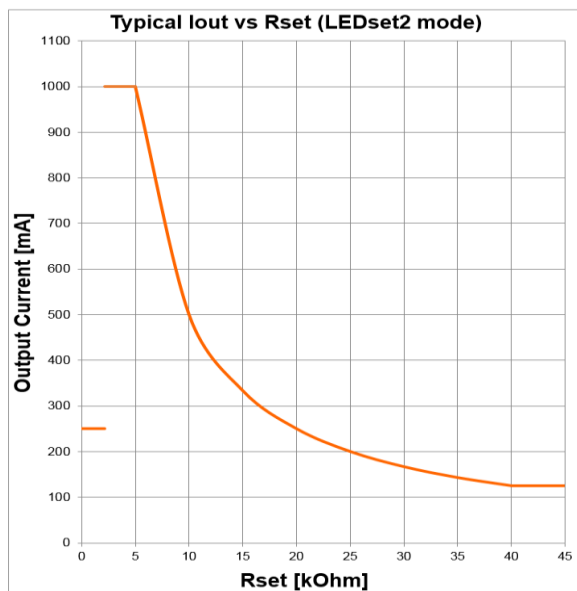
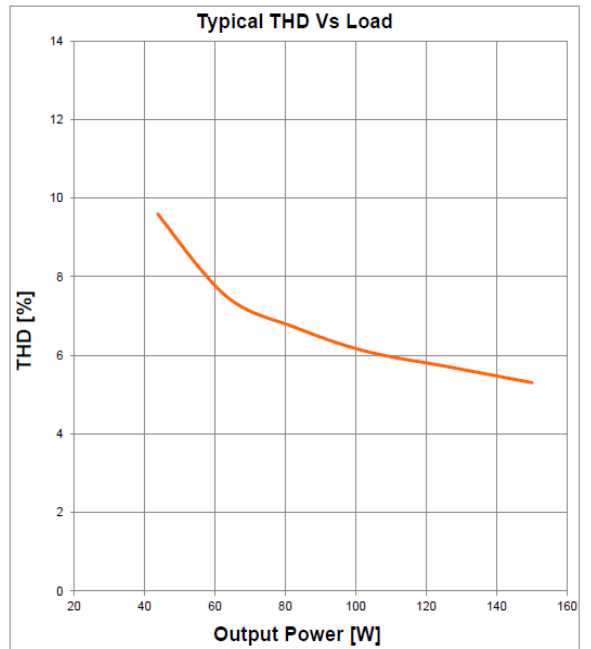
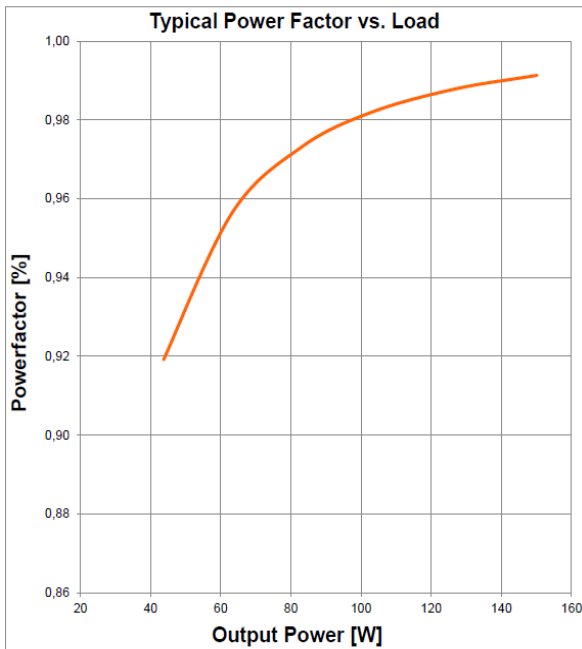
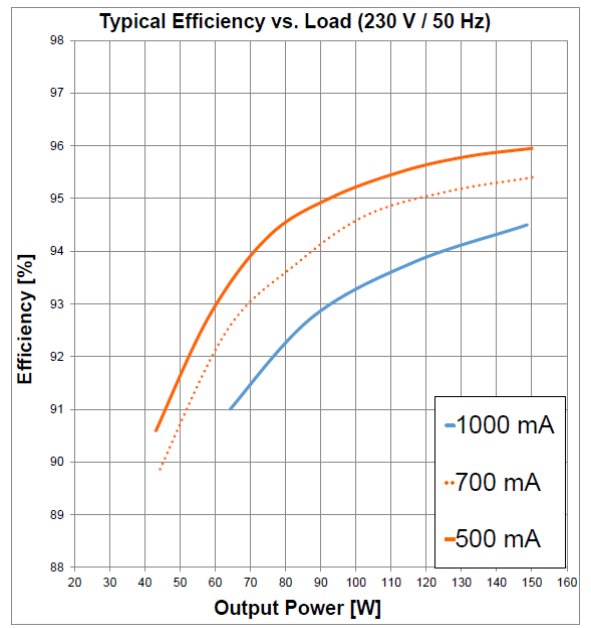
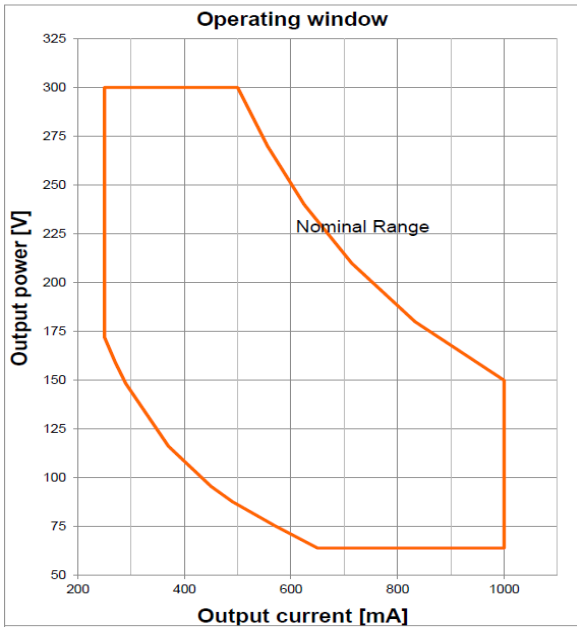
Push in terminals  
2 m  
360 x 30 x 21 mm

### Wire preparation:

Push in  
s: 0.5-1.5  
f: 0.75-1.5  
7-8 mm

5.) Mains – 6.) Input – 7.) Output



## Remarks

- **Input overvoltage protection:** mains up to 350 Vac, for two hours maximum, will not destroy both the unit and the load; shut down of the load might occur in this condition.
- **Input surge protection:** the unit is protected against surge up to 4kV between L-N (symmetric surge) and L/N-PE (asymmetric surge). During an asymmetric surge, the voltage between the LED outputs and PE is equal or lower than the applied surge voltage.
- **Output short circuit / undervoltage protection:** shut down of the load happens if  $V_{out}$  is out of the operating range.
- **Output overload protection:** the unit automatically reduces the output current to keep the output power below 100W.
- **Output over voltage protection:** shut down of the load might happen if  $V_{out}$  exceeds 300V
  - o **Step 1:** output current reduction to decrease  $V_{out}$ ;
  - o **Step 2:** shut down of the load at longer or extreme overvoltage.
- **No load operation:** the unit automatically switches off, the maximum output voltage is <340V.
- **Overtemperature protection:** the unit is protected against temporary overheating by automatic reduction of the output current when  $t_c > 85^{\circ}\text{C}$ .
- **Switchover time:** lower than 0.5 s, from AC to DC mains and viceversa.
- **Output power hold time:** > 4 ms, in case of mains dips.
- **Emergency lighting:** this LED power supply is suitable for emergency lighting fixtures acc. to EN 60598-2-22; according to IEC 61347-2-13 Annex J.
- **Emergency Escape Lighting:** this LED power supply is suitable for emergency escape lighting systems acc. to EN 50172.

1A0

## Standards

IEC 61347-1  
IEC 61347-2-13  
IEC 62384  
IEC 61000-3-2  
IEC 61000-3-3  
IEC 61547

Product name	EAN10	EAN40	Pieces / box
OT FIT 150/220-240/1A0 D LT2 NFC IND L	4052899990142	4052899990159	20

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