

Product data sheet: OT FIT 100/220-240/700 D LT2 IND L

Constant current LED driver w NFC – non isolated
Wide operating area up to 700mA

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

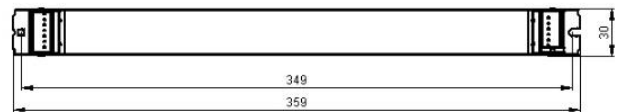
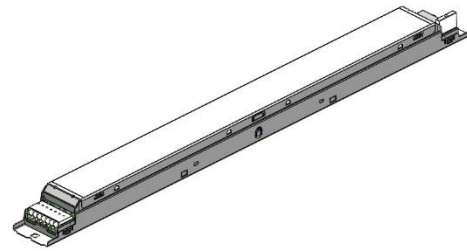
Wide operating range: 200 – 700 mA , 64 – 300 V
Wide ambient temperature range: -40...+70 °C
Current Set via LEDSet2 or NFC / CLO & EL via NFC
In-rush current limiter integrated
Extremely long lasting & highly reliable (Industry application)
4kV surge capability (symmetric and asymmetric)
Suitable for emergency lighting units

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



Housing material: metal, white painted

Product Features

- 100W output current range 200 – 700 mA
- 100'000 h lifetime at $t_c = 75^\circ\text{C}$
- Very high efficiency up to 95.5%
- 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

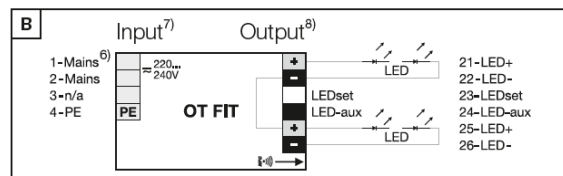
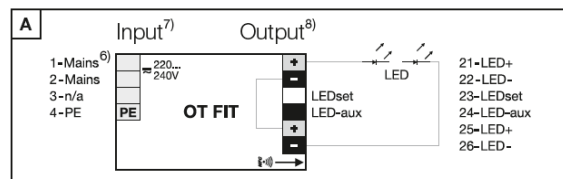
	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	AC or RAC
	DC voltage range	176 – 276	V	DC
	Maximum voltage	350	V _{AC}	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.47	A	
	Total Harmonic Distortion (THD)	7	%	Typical value, full load
	Power factor	> 0.98		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	Up to 95.5	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Starting time	≤ 0.6	s	
	Power loss	9	W	Maximum full load
	Protection class	I		PE can be connected either to terminal or housing
	Inrush current	4	A pk	T _h = 1300 μs
	Max. units per circuit breaker	B16: 36; B10: 21		
PE current	< 0.5	mA	Through PE	
OUTPUT	Nominal voltage range	64 – 300	V	
	Maximum voltage	< 340	V _{DC}	w/ no load
	Nominal current range	200 – 700	mA	Default output current: 200mA LEDset open: 200mA / LEDset short: 200mA
	Current accuracy	+/- 3	%	With LEDset: +/- 5%
	Current ripple	< 1	%	LF ripple <1%, HF ripple <4%
	Nominal power range	28 – 100	W	
	Maximum power	100	W	
	Emergency Output Factor (EL)	15	%	ta = -40...+50°C: EOF _I = 1 ta = +50...+80°C: EOF _I = 0.45
	Galvanic isolation	no		Non-isolated
	ENVIRONMENT	Ambient temperature range t _a	-40 ... +70	°C
Maximum case temperature t _c		85	°C	Measured on t _c 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 _c = 85°C, 0.2% / 1'000 h failure rate, 24h ON
	100'000	t _c = 75°C, 0.2% / 1'000 h failure rate, 24h ON		

Wiring Diagram

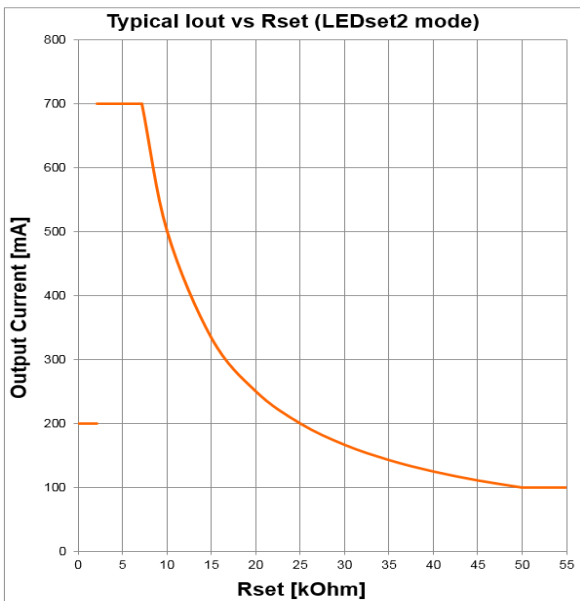
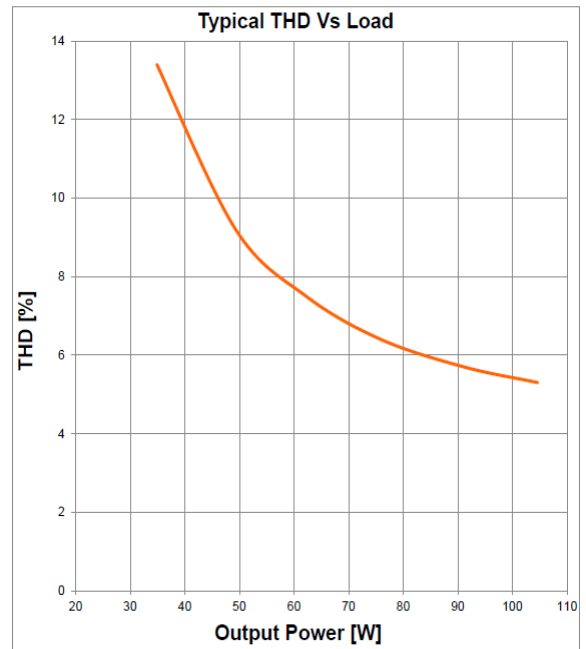
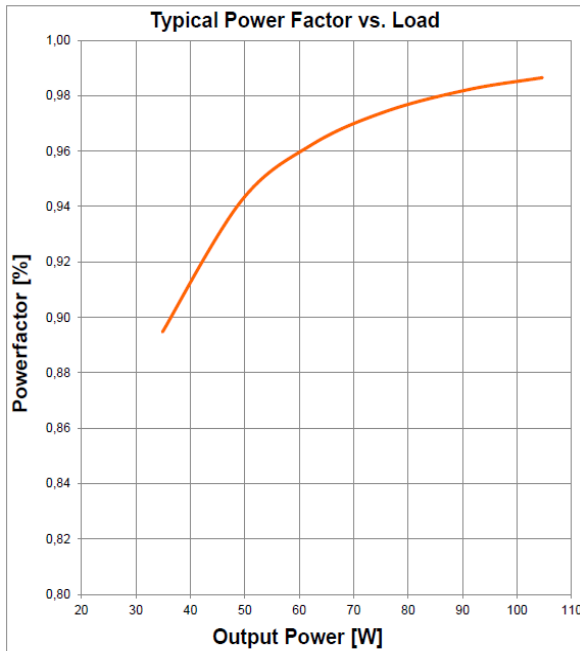
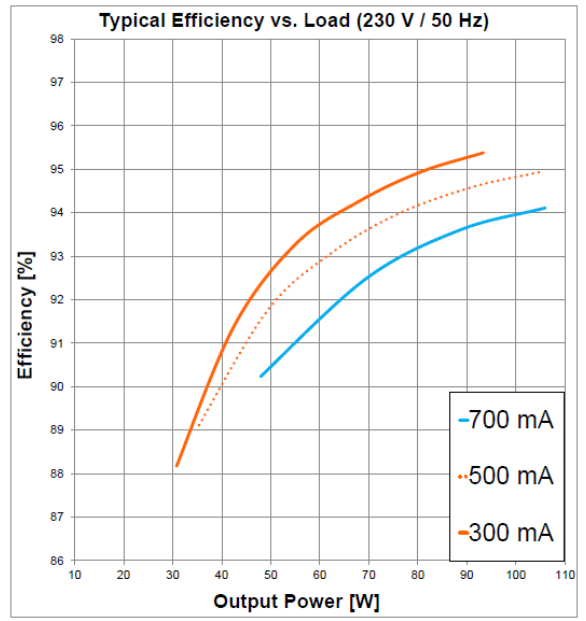
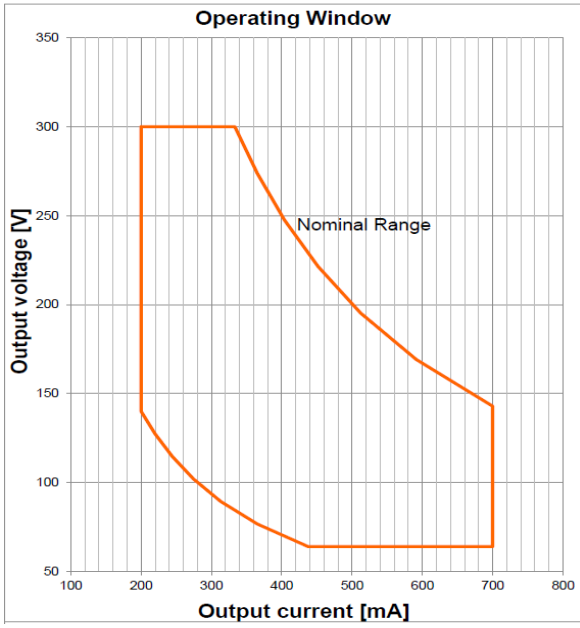
Terminal:
Max. cable length - system: 2 m
Geometry (l x b x h): 360 x 30 x 21 mm

Wire preparation:

Push in
s: 0.5-1.5 mm
f: 0.75-1.5 mm
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.

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 100/220-240/700 D LT2 NFC IND L	4052899990128	4052899990135	20

Inventronics GmbH

Parkring 31-33
85478 Garching, Germany
www.inventronicsglobal.com

Created on: October 2024

inventronics