Light is OSRAM

OSRAM

OT FIT 25/220-240/500 NFC L

Constant current LED driver incl. NFC Interface – SELV

Wide operating area up to 500mA

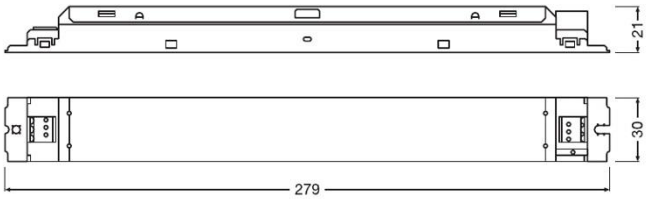
Not final product picture

Flexible, reliable solution for energy saving lighting:
Combining a high operating area with a maximum of efficiency and lifetime in small dimensions
Flexible and future-proof current setting via NFC*

Benefits
Wide operating range: 170 – 500mA
Adjustable current via NFC
CLO integrated for additional savings
5 years guarantee
Small, slim white metal housing 30 x 21 mm
Suitable for emergency lighting units

Applications
Linear and area lighting
Office – industrial – shop – retail

Applications
CE, VDE- ENEC, RCM, EAC, BIS, ,EL
In preparation, if not already printed on the label



Housing material: metal, white painted

*for more information please refer to Tuner4TRONIC™

Product Features

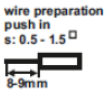
- Output current range 170 – 500mA
- Overload protection
- Very low ripple ≤4%
- High efficiency up to 87%
- Output power up to 25W
- Mains voltage 220 – 240V
- Suitable for emergency lighting
- Fast NFC programming (current)
- Overtemperature protection
- CLO integrated
- 100’000 h lifetime at t_c = 65°C
- t_c max = 75 °C
- Wide t_a range -25 – +60 °C
- 5 years guarantee

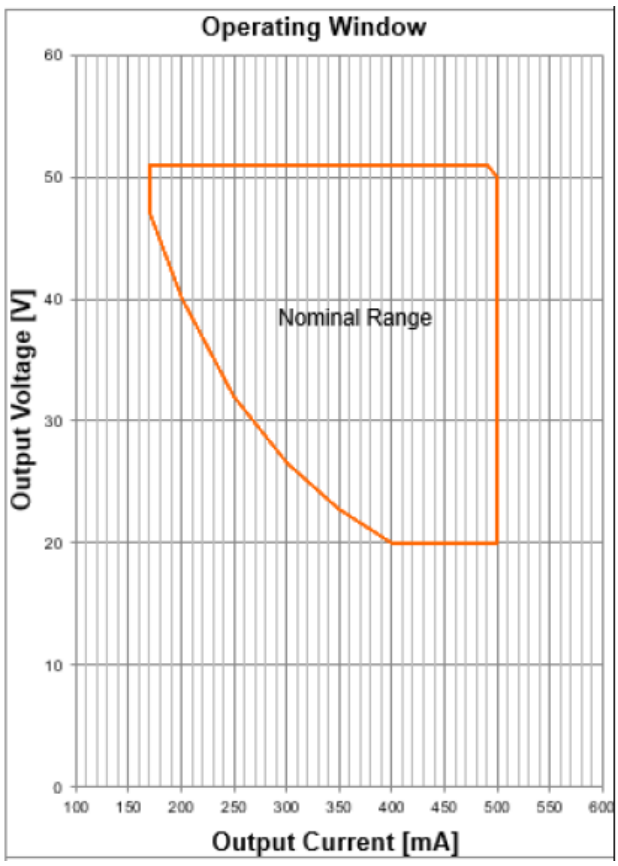
Electrical Specifications

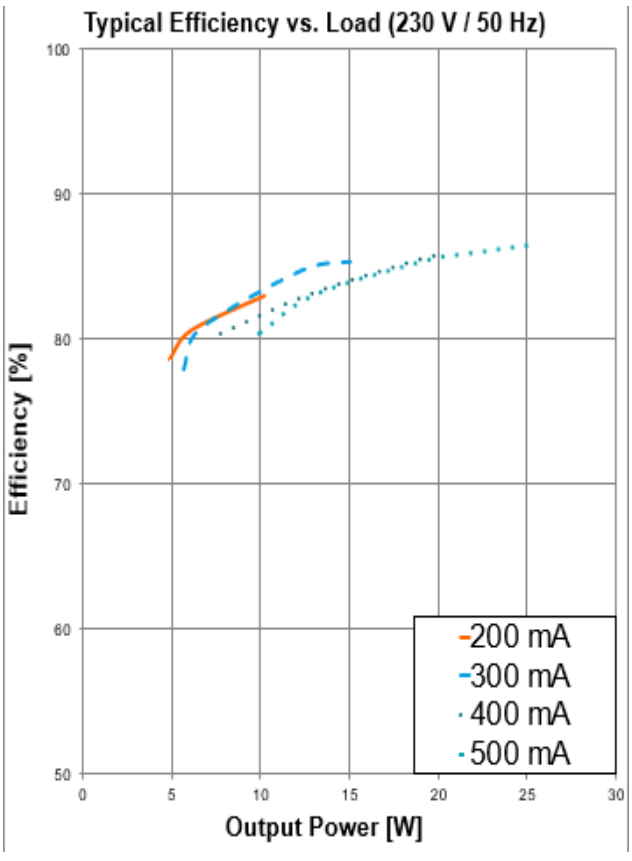
	Item	Value	Unit	Remarks
INPUT	Nominal voltage	220 – 240	V	
	Nominal frequency	0 / 50 / 60	Hz	
	AC voltage range	198 – 264	V	
	DC voltage range	176 – 276	V	DC or pulsating DC
	Maximum voltage	350	Vac	2 h maximum, unit might not operate in this abnormal condition
	Nominal current	0.14	A	
	Total Harmonic Distortion (THD)	~ 10	%	Full load
	Power factor	> 0.91		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	Up to 87	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Starting time	≤ 0.3	s	
	Power losses	2	W	Maximum, full load
	Protection class	I		PE can be connected either to terminal or housing
	Inrush current	≤ 16	A pk	th = 100 µs
	Max. units per circuit breaker	B16: 90 B10: 50		
	Protective conductor current	< 0.5	mA	Through PE
OUTPUT	Nominal voltage range	20 – 51	V	
	Maximum voltage	< 60	Vdc	w/ Open Circuit
	Nominal current range	170 – 500	mA	
	Current accuracy	+/- 3	%	
	Current ripple	< 4	%	100 Hz., low freq. ripple is negligible
	Nominal power range	8 – 25	W	
	Maximum power	25	W	
	Emergency output factor (EL)	15	%	ta = -25…+50°C: EOF_I =1 ta = +50…+80°C: EOF_I =0.45
	Galvanic isolation	YES		SELV
ENVIRONMENT	Ambient temperature range t_a	-25 …+60	°C	
	Maximum case temperature t_c	75	°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	1 | 2	kV	L/N | LN/PE acc to. EN 61547 Clause 5.7
	Environmental rating	Indoor		
	IP rating	IP 20		
	Mains switching cycles	> 100'000		
	Expected lifetime	50'000 100'000	h	t_c = 75°C, 0.2% / 1'000 h failure rate, 24h ON t_c = 65°C, 0.1% / 1'000 h failure rate, 24h ON

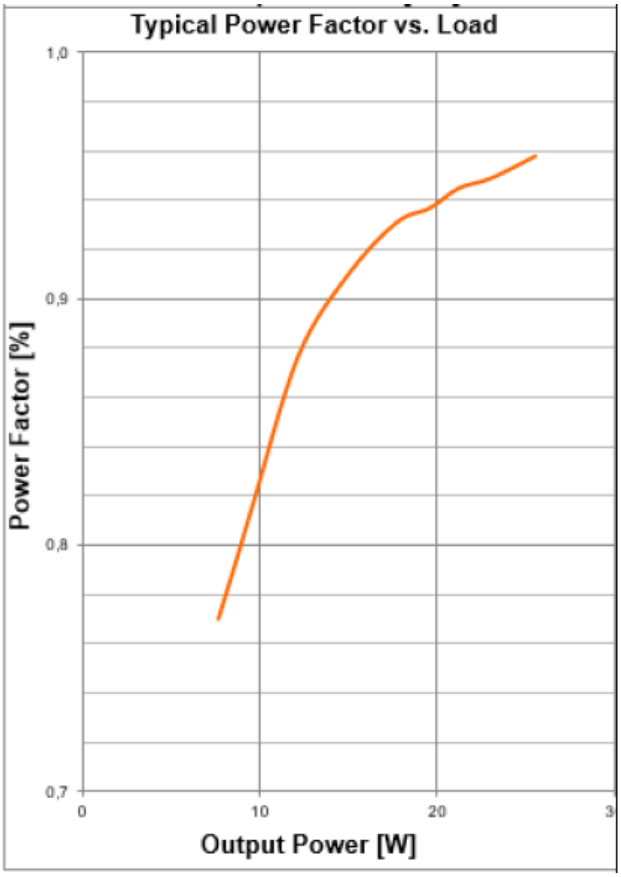
Wiring Diagram

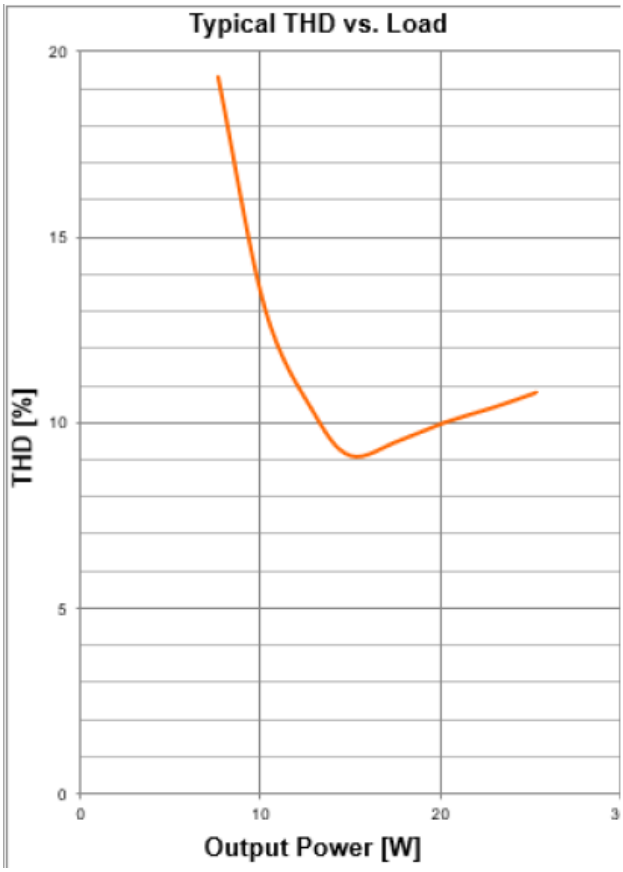
Terminal:	Push in terminals
Max. cable length - system:	2 m
Geometry (l x b x h):	280 x 30 x 21 mm




Operating Window
Output Voltage [V]
Output Current [mA]
Nominal Range
0
10
20
30
40
50
60
100
150
200
250
300
350
400
450
500
550
600


Typical Efficiency vs. Load (230 V / 50 Hz)
Efficiency [%]
Output Power [W]
200 mA
300 mA
400 mA
500 mA
50
60
70
80
90
100
0
5
10
15
20
25
30


Typical Power Factor vs. Load
Power Factor [%]
Output Power [W]
0,7
0,8
0,9
1,0
0
10
20


Typical THD vs. Load
THD [%]
Output Power [W]
0
5
10
15
20
0
10
20

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 1kV between L-N (symmetric surge) and 2 kV 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 Vout is out of the operating range.
- **Output overload protection:** unit automatically reduces the output current to keep the output power below 25W.
- **Output over voltage protection:** shut down of the load might happen if Vout exceeds 51V
    - **Step 1:** output current reduction to decrease Vout**;**
    - **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 <60V.
- **Overtemperature protection:** the unit is protected against temporary overheating by automatic reduction of the output current when tc > 75°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 EN 61347-2-13 Annex J.

Standards

EN 61347-1

EN 61347-2-13

EN 62384

EN 61000-3-2

EN 61000-3-3

EN 61547

EN 55015

Product name	EAN10	EAN40	**Pieces / box**
OT FIT 25/220-240/500 NFC L	4062172063982	4062172063999	20

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