

Light is OSRAM

OSRAM

Product data sheet: OT FIT 35/220-240/350 D NFC L

Constant current LED driver incl. NFC Interface – non isolated

Wide operating area up to 350mA

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: 75 – 350mA
Adjustable current via NFC
Long lasting and high reliability
5 years guarantee
Small, slim white metal housing 30 x 21 mm
Suitable for emergency lighting units

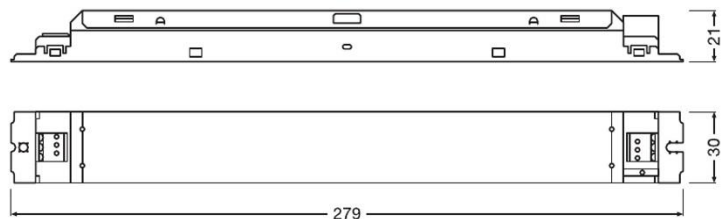
Applications

Linear and area lighting
Office – industrial – shop

Applications

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

*for more information please refer to Tuner4TRONIC™



Housing material: metal, white painted

Product Features

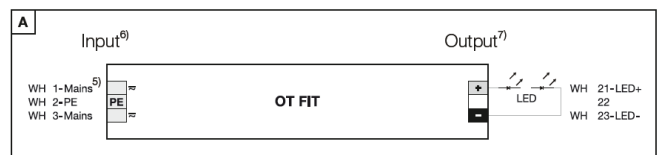
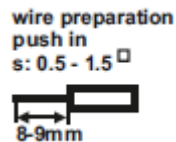
- Output current range 75 – 350mA
- Overload protection
- Very low ripple $\leq 1\%$
- Very high efficiency up to 93%
- Output power up to 35W
- Mains voltage 220 – 240V
- Suitable for emergency lighting
- Fast NFC programming (current)
- Overtemperature protection
- Small dimensions
- 100'000 h lifetime at $t_c = 65^\circ\text{C}$
- $t_c \text{ max} = 75^\circ\text{C}$
- Wide t_a range $-25 - +60^\circ\text{C}$
- 5 years guarantee

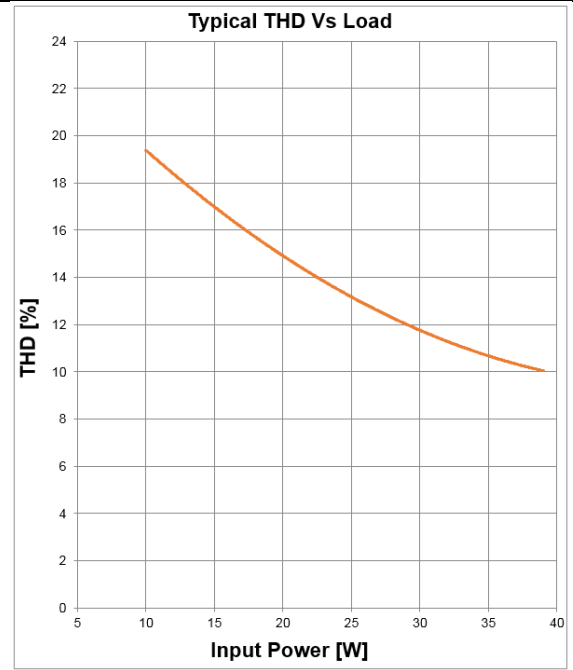
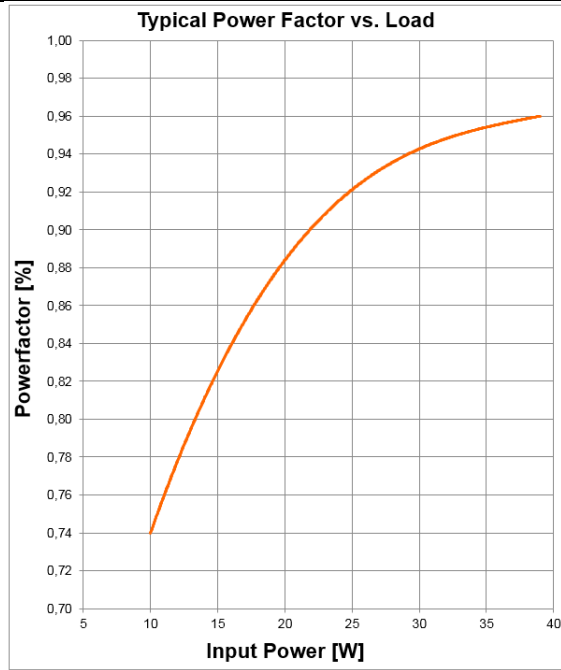
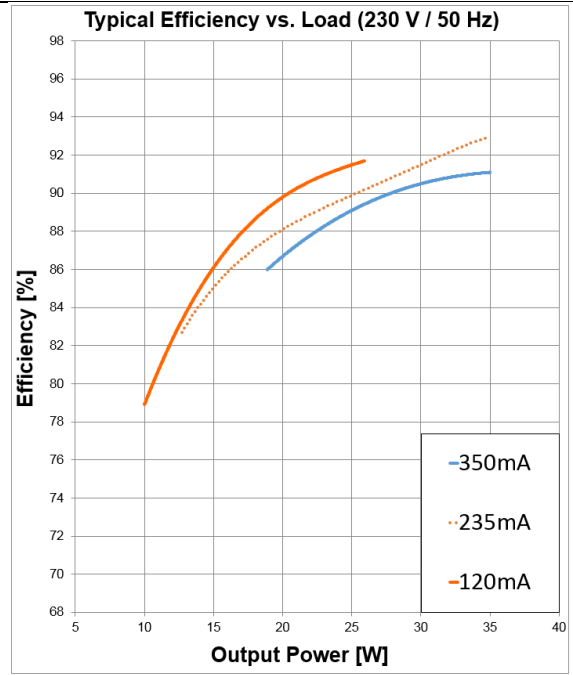
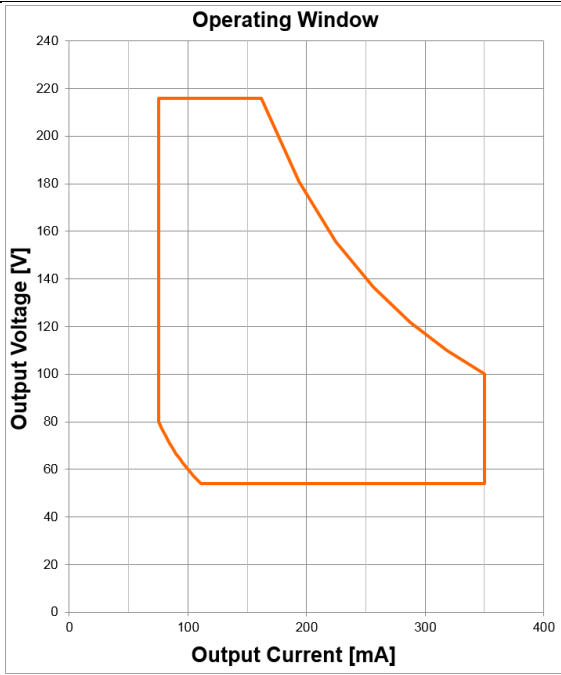
Electrical Specifications

	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	0.18	A	
	Total Harmonic Distortion (THD)	~ 10	%	Full load
	Power factor	> 0.95		Full load, 220 – 240 V, 50 Hz / see graphs
	Efficiency	Up to 93	%	Full load, 220 – 240 V, 50 Hz / see graphs
	Starting time	≤ 0.3	s	
	Power losses	4	W	Maximum, full load
	Protection class	I		PE can be connected either to terminal or housing
	Inrush current	30	A pk	th = 145 μs
	Max. units per circuit breaker	B16: 30 B10: 19		
	OUTPUT	Protective conductor current	< 0.5	mA
Nominal voltage range		54 – 216	V	
Maximum voltage		< 250	Vdc	w/ Open Circuit
Nominal current range		75 – 350	mA	
Current accuracy		+/- 5	%	
Current ripple		< 1	%	100 Hz., low freq. ripple is negligible
Nominal power range		6 – 35	W	
Maximum power		35	W	
Emergency output factor (EL)				ta = -25...+60°C: EOF _I =1 ta = +60...+80°C: EOF _I =0.75
Galvanic isolation		no		Non-isolated
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





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 35W.
- **Output over voltage protection:** shut down of the load might happen if Vout exceeds 216V
 - o **Step 1:** output current reduction to decrease Vout;
 - 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 <250V.
- **Overtemperature protection:** the unit is protected against temporary overheating by automatic reduction of the output current when $t_c > 75^\circ\text{C}$.
- **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 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 35/220-240/350 D NFC L	4052899990166	4052899990173	20

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