

OT FIT 50/220-240/250 D L

Constant current LED driver – non isolated

Fixed current 250mA

Flexible, reliable solution for energy saving lighting:
Extreme small sized metal housed non-SELV driver
with a high energy efficiency and maximum of lifetime.

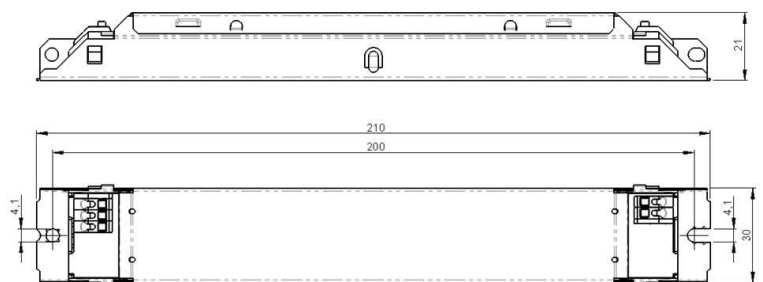


Benefits

Very small metal housing: 210x21mm
Long lifetime and high reliability
5 years OSRAM guarantee
High efficiency
Very low ripple (camera proof)
Suitable for emergency lighting units

Applications

Linear and area lighting
Office – Industrial – Shop



Approval marks



In preparation, if not already printed on product label

Product Features

- Fixed output current 250mA
- Very small dimensions
- Low output current ripple < 10%
- Very high efficiency > 90%
- Output power up to 54 W
- Suitable for emergency lighting
- Overload protection
- No-load & short circuit protection
- 100'000 h lifetime at $t_c = 65^\circ\text{C}$
- $t_c \text{ max} = 75^\circ\text{C}$
- Wide t_a range $-15 - +50^\circ\text{C}$
- 5 years guarantee

Electrical Specifications

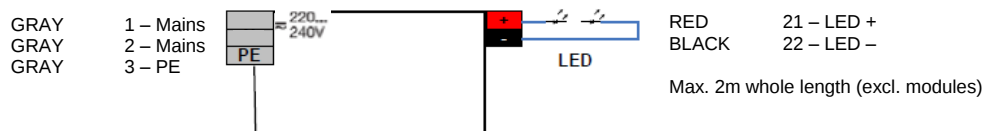
	Item	Value	Unit
INPUT	Nominal voltage	220 – 240	V
	Nominal frequency	0 / 50 / 60	Hz
	AC voltage range	198 – 264	V
	DC voltage range	176 – 276	V
	Maximum voltage	280	Vac/48h
	Nominal current	0.27	A
	Total Harmonic Distortion (THD)	< 20	%, full load
	Power factor	> 0.95	full load
	Efficiency	> 90	%, full load
	Starting time	typ. 0.5	s
	Power losses	5	W, full load
	Protection class	I	
	Inrush current	Inrush current limiter	
	Max. units per circuit breaker	B10: 35; B16: 56 C10: 35; C16: 56	
OUTPUT	PE current	< 0.5	mA
	Nominal voltage range	54 – 216	V
	Maximum voltage	< 250	Vdc
	Nominal current	250	mA
	Current accuracy	+/- 10	%
	Current ripple	< 10	%
	Nominal power range	13.5 – 54	W
	Maximum power	54	W
	DC Output Current (EL)	100	%
	Galvanic isolation	No	
ENVIRONMENT	Ambient temperature range t_a	-15 ... +50	°C
	Maximum case temperature t_c	75	°C
	Max. case temp. in fault condition	110	°C
	Storage temperature range	-25 ... +85	°C
	Relative humidity	5 ... 85	%
	Surge transient protection	1 2	kV
	Environmental rating	Indoor	
	IP rating	IP 20	
	Mains switching cycles	> 150'000	
	Expected lifetime	50'000 100'000	$h, t_{c \max}$ $h, t_{c -10}$

Protections

Overload, No load, Short-circuit, Output undervoltage

See remarks on page 4.

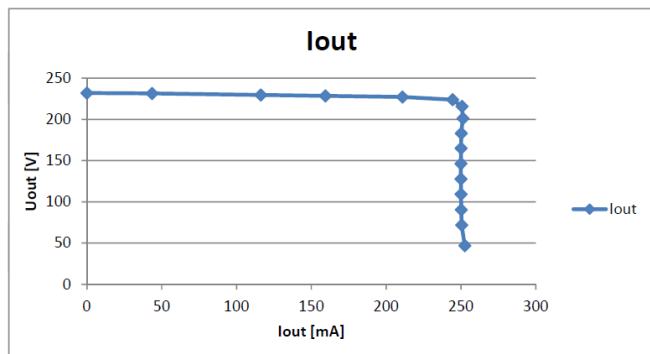
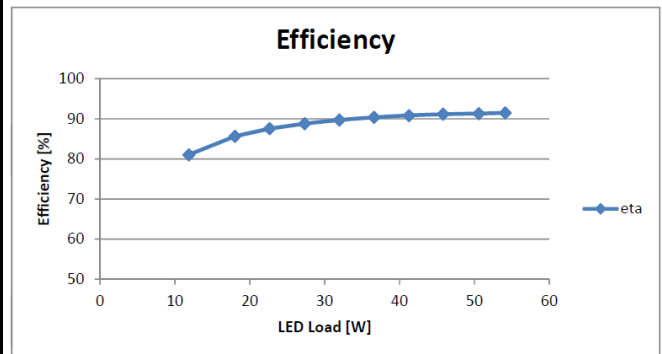
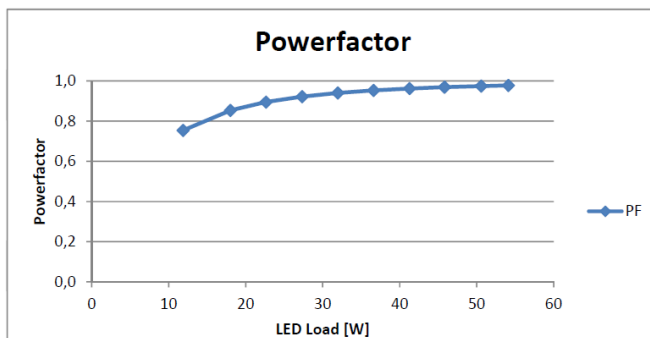
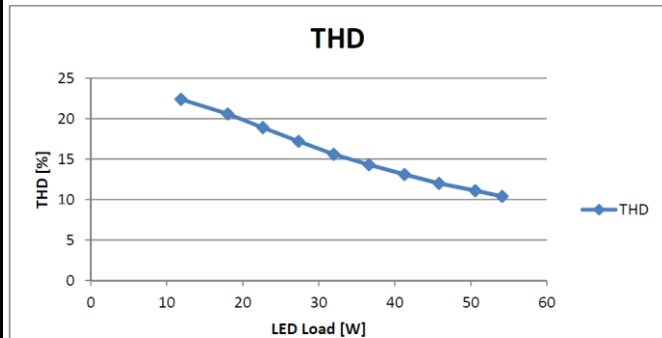
Wiring Diagram



Wire type and preparation:

Solid 0.5 – 1.5 mm² peeling length:
Flex. 0.5 – 1.5 mm² 8.5 – 9.5 mm

Push connectors button for easy wire insertion or to release.

I_{out}**Typical Efficiency vs load****Typical Power factor vs load****Typical THD vs load**

Remarks

- **Input over voltage protection:** mains up to 280 Vac, for 48 hour maximum, will not destroy both the unit and the load
- **Output short circuit / undervoltage protection**
- **Output over voltage protection:** V_{out} limited to 250V
- **No load protection:** V_{out} limited to 250V
- **Switchover time:** lower than 0.5 s, both AC and DC mains.
- **Output power hold time:** < 1 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 systems:** this LED power supply is suitable for emergency escape lighting systems acc. to EN 50172

Standards**Ordering information**

EN 61347-1
EN 61347-2-13
EN 55015
EN 61547
EN 61000-3-2
EN 62384

Product name	Type	EAN10	EAN40	NAED	Pieces / box
OT FIT 50/220-240/250 D L	AA7206800DG	4052899222571	4052899222588	n/a	20

Manufacturer's address:**OSRAM GmbH**

Steinerne Furt 62
D-86167 Augsburg
Germany

www.osram.com

Technical support:

Kunden Service Center Germany
+49 (0)89-6213-60 00