

OT FIT 50/220-240/350 D L

Constant current LED driver – non isolated

Fixed current 350mA

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

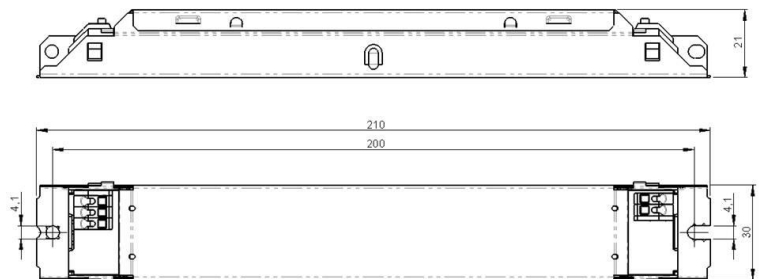


Benefits

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 350mA
- Very small dimensions
- Low output current ripple < 10%
- Very high efficiency > 90%
- Output power up to 52.5 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

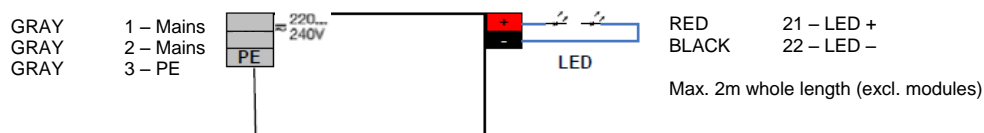
| | Item | Value | Unit |
|-------------|------------------------------------|--------------------------------------|-----------------|
| INPUT | Nominal voltage | 220 – 240 | V |
| | Nominal frequency | 0 / 50 / 60 | Hz |
| | AC voltage range | 198 – 264 | V |
| | DC voltage range | 176 – 276 | V |
| | 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 – 150 | V |
| | Maximum voltage | < 250 | Vdc |
| | Nominal current | 350 | mA |
| | Current accuracy | +/- 10 | % |
| | Current ripple | < 10 | % |
| | Nominal power range | 18.9 – 52.5 | W |
| | Maximum power | 52.5 | W |
| | DC Output Current (EL) | 100 | % |
| ENVIRONMENT | Galvanic isolation | No | |
| | 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 | $h, t_{c \max}$ |
| | | 100'000 | $h, t_{c -10}$ |

Protections

Overload, No load, Short-circuit, Output undervoltage

See remarks on page 4.

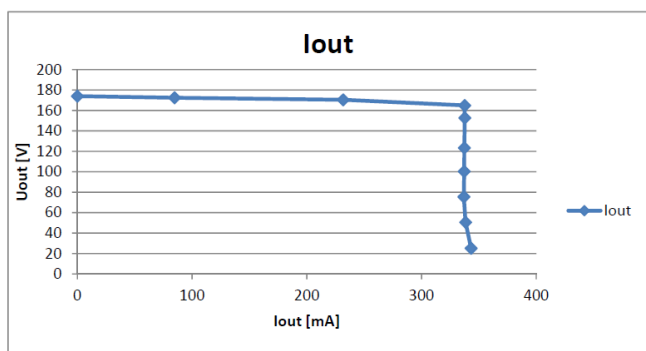
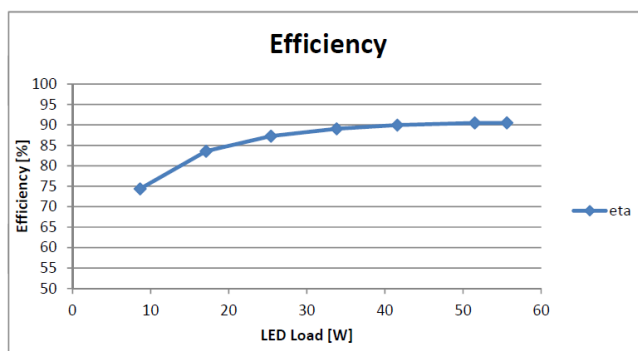
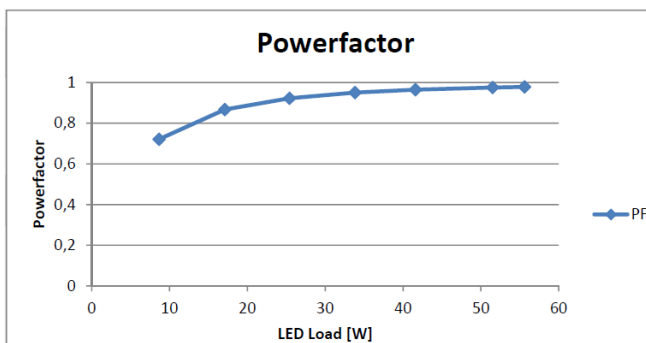
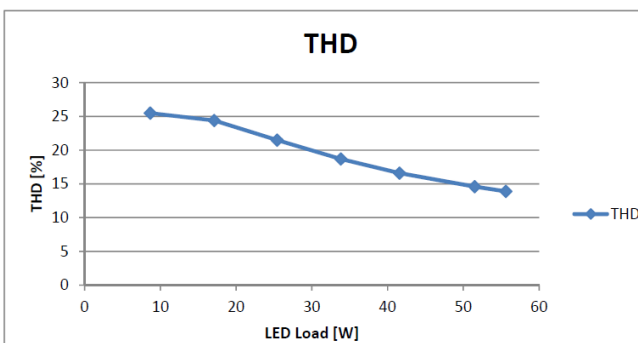
Wiring Diagram



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 50/220-240/350 D L | AA6998100DG | 4052899222595 | 4052899222601 | n/a | 20 |
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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