

ICUTRONIC IT FIT 30/220-240/24

24V Constant Voltage LED driver

A simple choice for the decorative lighting, well tested by OSRAM quality standard, fits 24V flex & Signage applications in retails, hotel, restaurants, etc.

Benefits

Well design for Flex and Signage
 High efficiency up to 87%
 Class II design for wide application
 Excellent price/quality/watt ratio

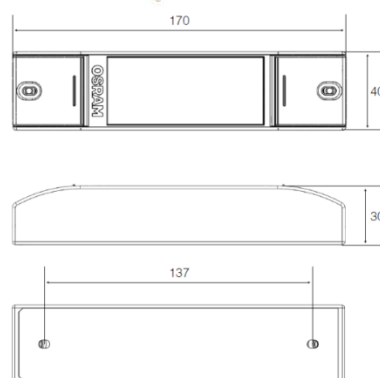
Applications

Hospitality – decorative lighting, night light
 Restaurants – decorative lighting
 Shops – decorative lighting, shelf lighting
 Residential – cove lighting, under cabinet lighting

Approval marks



In preparation, if not already printed on product label



| | |
|----|-------|
| L | 170mm |
| L1 | 137mm |
| B | 40mm |
| H | 30mm |

Product Features

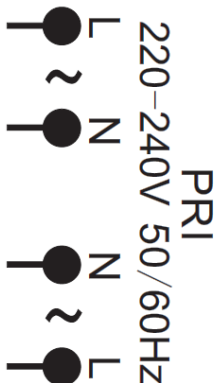
- 24V constant output voltage
- Output power up to 30W
- SELV
- Main voltage 220-240V
- High efficiency up to 87%
- PF>0.98
- Screw terminal
- Cable clamp integrated
- Overload protection
- Over temperature protection
- Short circuit protection
- Suitable for Class I/II luminaires, build-in & independent installation
- Wide Ta range -20 - +50 °C
- 50'000 h @ Tc max
- 5Y guarantee

Electrical specifications

| | Item | Value | Unit | Remarks |
|------------------------------------|---|-------------------|------|---|
| Input | Nominal voltage | 220 – 240 | V | |
| | Mains frequency | 50 / 60 | Hz | |
| | Input voltage AC | 198 – 264 | V | |
| | Maximum voltage | 280 | Vac | 2 h maximum, unit might not operate in this abnormal condition |
| | Nominal current | 0.2 | A | At 230 Vac |
| | Total Harmonic Distortion (THD) | < 5 | % | Full load, 230 Vac, 50 Hz / 60 Hz see graphs |
| | Power factor λ | 0.98 | | Typical, Full load, 230 Vac, 50 Hz / 60 Hz, see graphs |
| | ECG Efficiency | 87 | % | Typical, Full load, 230Vac, 50Hz, see graphs |
| | Power loss | 4.9 | W | Full load, 230 Vac, 50Hz / 60Hz |
| | Power loss in no load condition | <500 | mW | 230Vac, 50Hz typical |
| | Protection class | II | | Suitable for safety class I and II luminaires |
| | Suitable for fixtures with prot. Class | I / II | | |
| | Inrush current | 13.8 Apk / 336 us | | |
| | Max ECG no. on circuit breaker 10A | B:28 C:45 | | |
| | Max ECG no. on circuit breaker 16A | B:46 C:72 | | |
| Max ECG no. on circuit breaker 25A | B:73 C:113 | | | |
| Output | Nominal output voltage | 24 | V | |
| | Voltage accuracy | +2.5 / -3 | % | |
| | Voltage ripple | < 3 | % | Ripple / average @ 100 Hz; Full load |
| | Nominal output power | 30 | W | |
| | Maximum power | 30 | W | LED output |
| | Capacitive load | 20 | uF/A | |
| | Galvanic isolation | SELV | | |
| | U-OUT | 25 | V | |
| ENVIRONMENTAL | Ambient temperature range | -20 - +50 | °C | |
| | Max. temperature at tc test point operation | 80 | °C | Measured on tc point indicated of the prod label, ta not exceeded |
| | Max. case temp. in fault condition | 110 | °C | |
| | Storage temperature range | -40 - +85 | °C | |
| | Permitted rel. humidity during | 5 – 85 | % | Not condensing |
| | Surge capability (L/N) | 2 | kV | L/N acc to. EN 61547 |
| | Environmental rating | Indoor | | |
| | IP protection class | IP 20 | | |
| | Mains switching cycles | > 50'000 | | |
| | Expected lifetime | 50'000 70'000 | h | At tc max with 10% failure rate At tc-10°C with 10% failure rate |
| | No-load proof | Yes | | |
| | Overheating protection | Yes | | Automatically restart |
| | Overload protection | Yes | | Automatically restart |
| | Short-circuit protection | Yes | | Automatically restart |
| | Dimension | 170x40x30 | mm | L x W x H |
| | Weight | 190 | g | |
| | Casing material | Plastic | | |

Protections

Over temperature, Overload, Short-circuit. Reversible




220-240V 50/60Hz
PRI

ICUTRONIC IT FIT30/220-240/24


Constant Voltage LED Power Supply

| I_{rated} [A] | P_{rated} [W] | U_{rated} [V _{DC}] | U_N / f_N | I_N [A] | t_a [°C] | λ |
|-----------------|-----------------|--------------------------------|---------------------|-----------|------------|-----------|
| 1.25 | 30 | 24 | 220-240V 50/60Hz | 0.20 | -20...50 | 0.98 |


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tc=80°C
Made in China

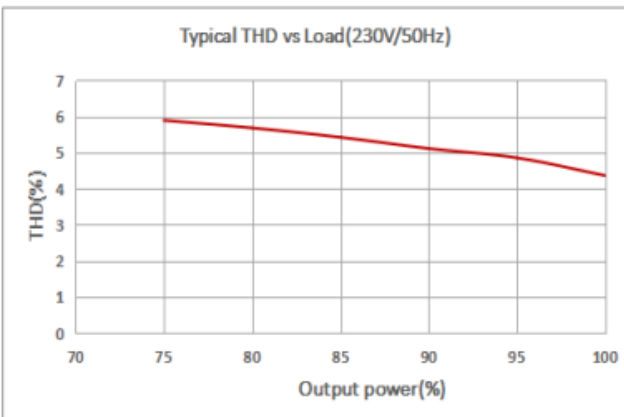
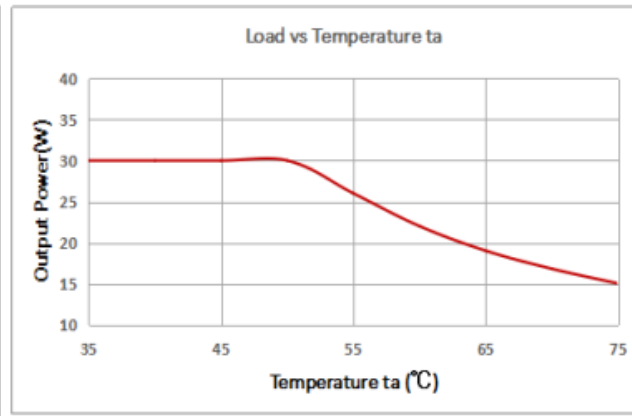
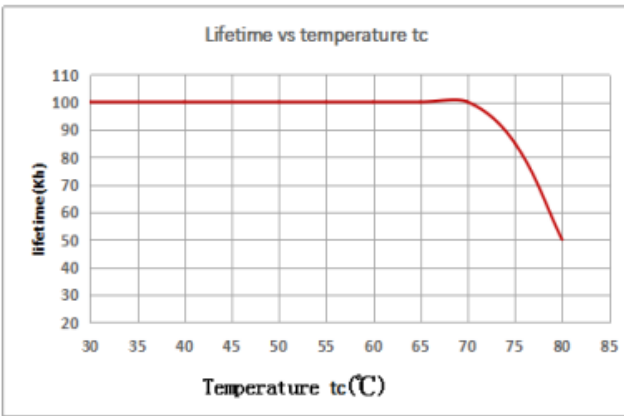
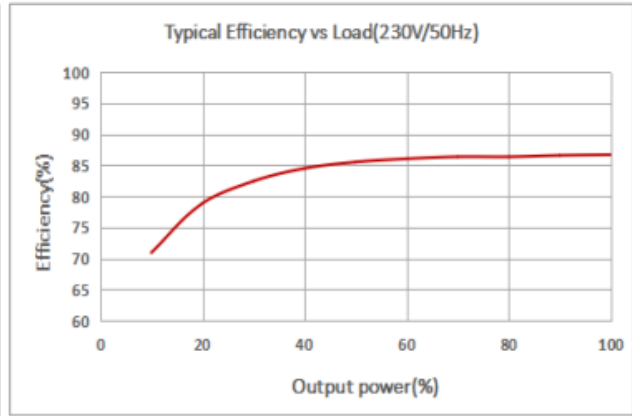
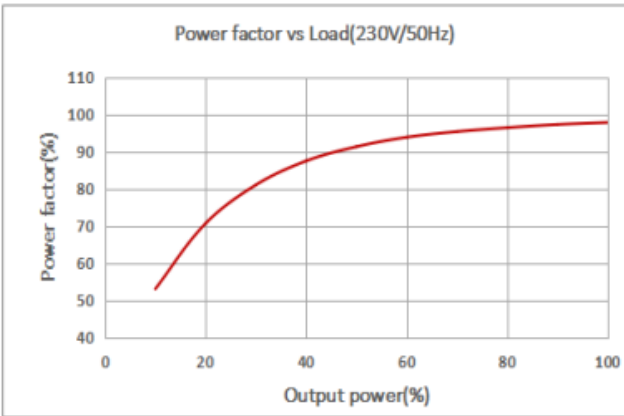


24V
SELV
LED Only



Cable and wire preparation

- Input wires cross section: 0.75 - 1,5 mm²
- Output wires cross section: 0.75-1.5 mm²
- Wire peeling length: input 5 mm; output 5 mm
- Load wires length: 3 m verified
- Screws are locked with 0.7Nm torque
- Max. looping-in current: 2.5A
- Cable recommendation:
 - H05VVH2-F 2x0.75 mm²;
 - H05VVH2-F 2x1.0 mm²;
 - H03VV-F 2x0.75 mm²;
 - H05VV-F 2x0.75 mm²;
 - H05VV-F 2x1.0 mm²;
 - H05VV-F 2x1.5 mm²;



Remarks

- **Output short circuit protection:** auto reversible when fault removed
- **Output overload protection:** auto reversible when fault removed
- **Over temperature protection:** the unit is protected against temporary overheating by shut down the unit, auto reversible when fault removed
- **Dimming compatibility:** The ICUTRONIC driver is able work with OSRAM dimmer as dimmable solution. For example: OTi DALI DIM 1-4CH, OT DIM, OT RGBW DIM, OT BLE DIM. It is recommended to check the performance of total system in design-in stage.
- **Non-IC classification:** The LED driver cannot be abutted against or covered by normally flammable materials or used in installations where building insulation or debris is, or may be, present in normal use.

Ordering information

| Product name | EAN 10 | EAN 40 | Pieces / box |
|----------------------|---------------|---------------|--------------|
| IT FIT 30/220-240/24 | 4062172168007 | 4062172168014 | 50 |

Standards

Safety:

EN/IEC 61347-1,
EN/IEC 61347-2-13

EN/Performance:

EN/IEC 62384

Harmonic content:

EN/IEC 61000-3-2

Radio interference: CISPR 15

Immunity:

EN/IEC 61000-3-3

EN/IEC 61547

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