

ICUTRONIC IT FIT 60/220-240/24

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 industries etc.

Benefits

Well design for Flex and Signage
 High efficiency up to 89%
 Class II design for wide application
 Excellent price/quality/watt ratio

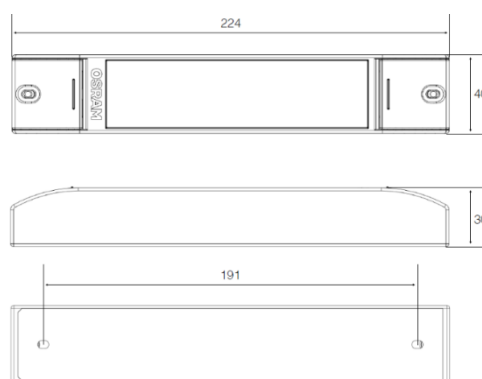
Applications

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	224mm
L1	191mm
B	40mm
H	30mm

Product Features

- 24V constant output voltage
- Output power up to 60W
- SELV
- Main voltage 220-240V
- High efficiency up to 89%
- 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

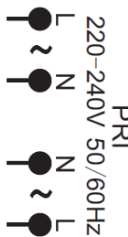









Electrical specifications

	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	0.31	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	89	%	Typical, Full load, 230Vac, 50Hz, see graphs
	Power loss	8.2	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	24.4A / 220 us		
	Max ECG no. on circuit breaker 10A	B:14 C:22		
	Max ECG no. on circuit breaker 16A	B:22 C:25		
Max ECG no. on circuit breaker 25A	B:25 C:55			
Output	Nominal output voltage	24	V	
	Voltage accuracy	+2.5 /-3	%	
	Voltage ripple	< 3	%	Ripple / average @ 100 Hz; Full load
	Nominal output power	60	W	
	Maximum power	60	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	85	°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)	1	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	224x40x30	mm	L x W x H
Weight	296	g		
Casing material	Plastic			

Over temperature, Overload, Short-circuit. Reversible

ICUTRONIC IT FIT 60/220-240/24
 Constant Voltage LED Power Supply

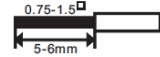
I_{rated} [A]	P_{rated} [W]	U_{rated} [V _{DC}]	U_N / f_N	I_N [A]	t_a [°C]	λ
2.5	60	24	220-240V 50/60Hz	0.31	-20...50	0.98

OSRAM GmbH
 Berliner Allee 65
 86153 Augsburg
 Germany
www.osram.com

24V

wire preparation
0.75-1.5mm²



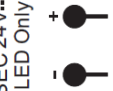
$t_c = 85^\circ\text{C}$
 Made in China

OSRAM

SEC-24V^{max}

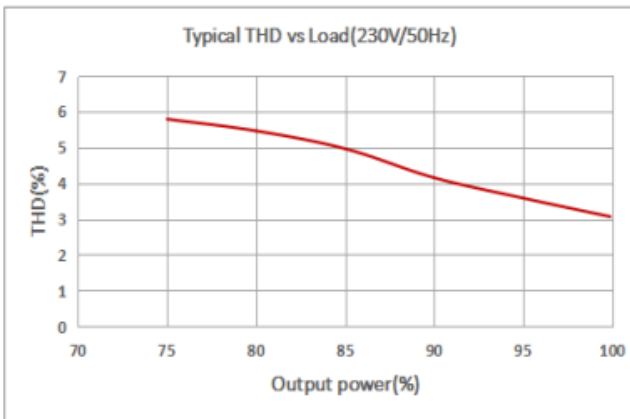
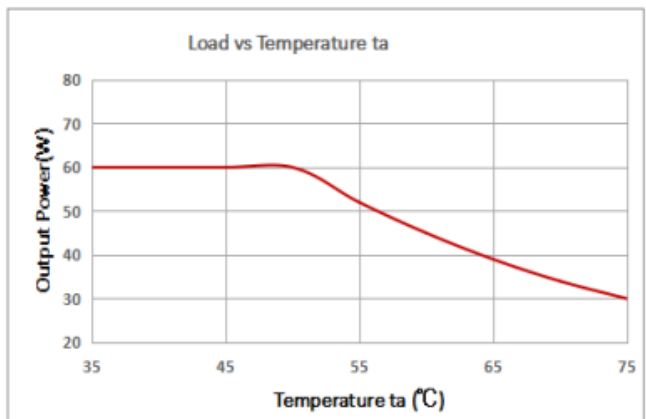
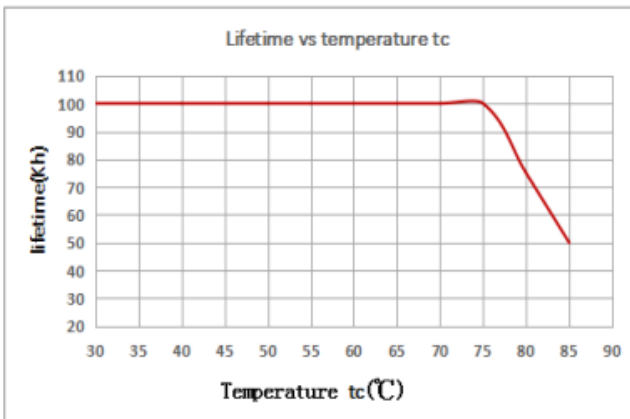
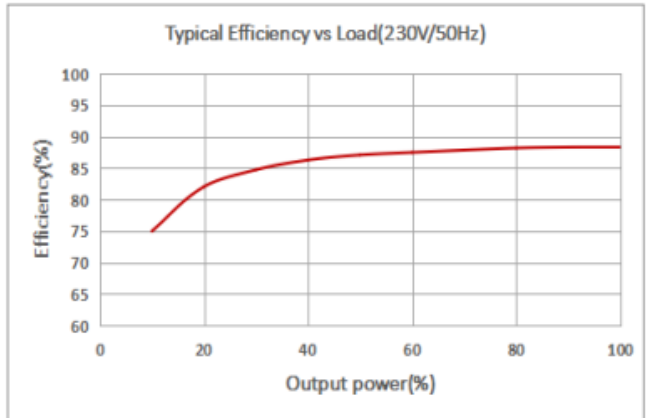
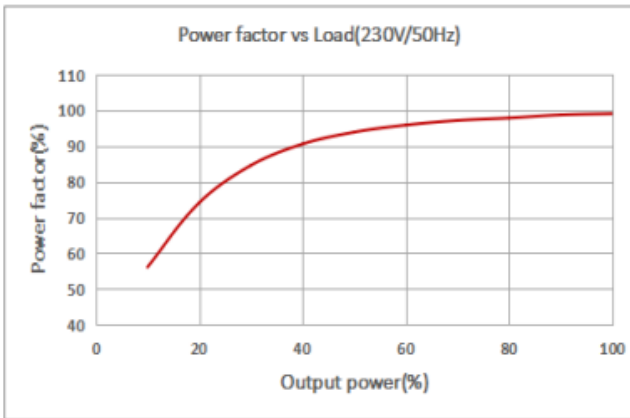
LED Only

SELV



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: 3.0A
- 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 60/220-240/24	4062172168021	4062172168038	30

Standards

Safety:

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

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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