Light is OSRAM

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OT FIT 200/220-240/24 P

Constant Voltage LED driver for outdoor

Benefits

Small housing design Robust and reliable for outdoor applications **UV** resistant Salt mist resistant

Applications

Outdoor areas for hotels, residentials, facades Public squares and architecture lighting Suitable for indoor and outdoor SELV installations

Approvals















Valid only if printed on product. When not printed on product label, they are under evaluation.



Housing material: metal * image for information purpose only

L	217 mm	Total length
L1	203 / 27 mm	Holes interaxis
В	53 mm	Width
Н	31.5 mm	Height

Product Features

- Suitable for Class I luminaires
- SELV, Vout: 24.2 V
- Wide t_a range -40...+50°C
- Overload/Over temperature/Short circuit protection, automatic, reversible
- **Smart Power Supply**
- $t_c max = 90^{\circ}C$
- Efficiency of 93%

- High surge protection: up to 4 kV (L-N) / 6 kV (L/N-PE)
- Low THD < 5%
- Low ripple < 2%
- Input voltage: 220-240 V_{AC}
- 50'000 h lifetime at tc 80°C
- 5 years guarantee*

^{*10%} cumulated failure

Electrical specification

	Item	Value	Unit	Remarks
	Nominal line voltage	220 – 240	V _{ac}	
INPUT	Mains line frequency	50 / 60	Hz	
	AC voltage range	198 – 264	V	Permitted voltage range
	Nominal current	1	Α	Full load, 230 V _{ac} , 50 Hz
	Total Harmonic Distortion (THD)	< 5	%	Full load, 230 V _{ac} , 50 Hz, see graphs
	Power factor λ	0,95		Full load, 230 V _{ac} , 50 Hz, see graphs
	Efficiency in full load	93	%	Typical, Full load, 230 V _{ac} , 50 Hz, see graphs
	Device power loss	15	W	Full load, 230 Vac, 50 Hz, Typical
	Intended for no-load application	No		Secondary switching not allowed
	Protection class	1		
	Suitable for fixtures with prot. Class	1		Full and OAO V. Cold Chart
	Inrush current	55	Α	Full Load, 240 V _{ac} , Cold Start Duration = 600 µs, 50% / 50% I _{pk}
	Max. units per circuit breaker:			P
	Max. ECG no. on circuit breaker 10 A (B)	4		
	Max. ECG no. on circuit breaker 16 A (B)	6		
	Max. ECG no. on circuit breaker 25 A (B)	10		
	Max. ECG no. on circuit breaker 10 A (C)	6		
	Max. ECG no. on circuit breaker 16 A (C)	10		
	Max. ECG no. on circuit breaker 25 A (C)	18		
	Nominal voltage	24.2	V	
	Voltage accuracy	± 3	%	
	U-OUT (working voltage)	<25.5	V	
5	Voltage ripple	< 2	%	Ripple / average @ 100 Hz; Full load
OUTPUT	Nominal output power	200	W	Smart Power Supply
0	Maximum output power	200	W	
	Power range	100 – 200	W	EMI verified. PF (λ) and THD between 140-200 W
	Capacitive load	20	μF/A	Linear modules allowed
	Galvanic isolation	SELV		
	Ambient temperature range	-40+50 +50+70	°C	Full load, t_c not exceeded Load derating, t_c not exceeded, refer to graph
	Max. temperature at t _c test point	+90	°C	Measured on t _c point indicated of the prod label, t _a not exceeded
	Storage temperature range	-40+85	°C	
	Permitted rel. humidity during operation	5 – 85	%	Not condensing
	Surge capability (L / N)	4	kV	acc to. EN 61547
	Surge capability (L – N / PE)	6	kV	acc to. EN 61547
	Environmental rating	Outdoor		
TAL	IP protection class	IP 66 & IP 67		
EN EN	Mains switching cycles	> 100000	cycles	@ t _a = 25°C
ENVIRONMENTAL	Expected ECG lifetime	50000	h	@ t _c = 80°C - 0.2% / 1000 h failure rate
/IR(No-load proof	Yes		
EN	Intended for no-load operation	No		
	Overheating protection	Yes		Auto reversible
	Overload protection	Yes		Auto reversible
	Short-circuit protection	Yes		Auto reversible
	Type of connection	Cables		
	Dimensions	217 x 53 x 31.5	mm	LxWxH
	Holes interaxis	203 / 27	mm	
	Weight	690	g	
	Casing material	Metal		

Status: Final

INPUT	Colour L / N / GND	Blue / Brown / Yellow and green		
	Cable cross section	1.0	mm²	H05RN-F/3x1.0 mm ²
	Wire preparation length	60	mm	
	Wire peeling length	10	mm	
	Lead length	300	mm	
OUTPUT	Colour + and -	Red / Black		
	Cable cross section	1.0	mm²	H05RN-F/2x1.0 mm ²
	Wire preparation length	60	mm	
	Wire peeling length	10	mm	
	Lead length	300	mm	

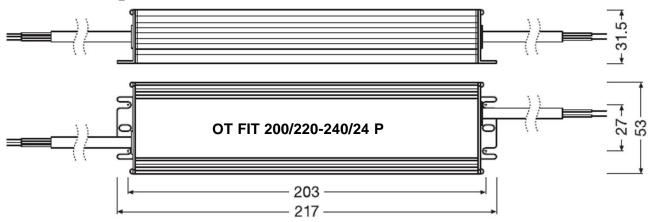
Led wire length

EMI pass verified with wire length from the ECG to the LED module at full load at 3 m.

Longer wiring is possible, with recommendation up to 10 m length. Site installation conditions may interfere with EMI with such longer cables.

For longer lengths than 10 m, cable cross section must be increased to reduce voltage drop. EMI not verified in this condition.

Product drawing

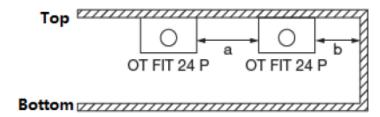


Protection

Over temperature, Overload, Short-circuit. Auto reversible.

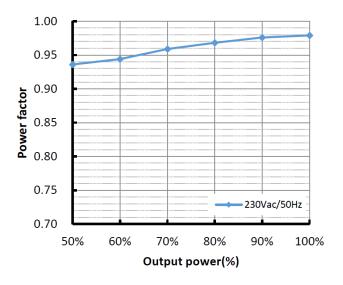
Installation requirements

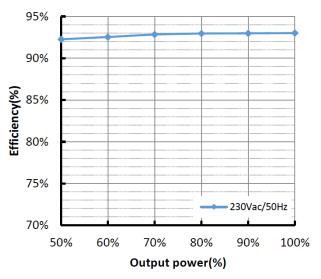
Keep enough distance from the ceiling corner or other drivers to avoid overheat. The driver is not allowed to be covered by flammable materials. At critical conditions showed by below picture (Full load, t_a =50°C, driver on the corner of ceiling), refer to below distances. At normal installation conditions, distances can be shorter but temperature at t_c point must within t_c max.

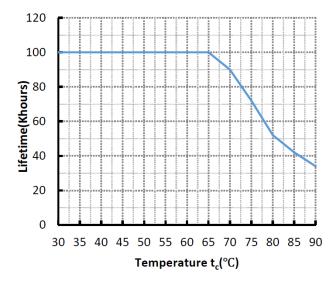


a: ≥ 5 cm; b: ≥ 10 cm

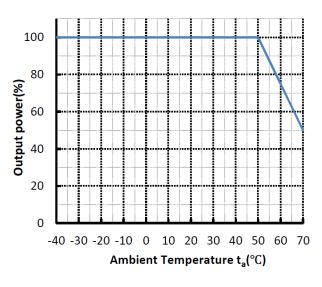
For further details on application, please refer to user instruction

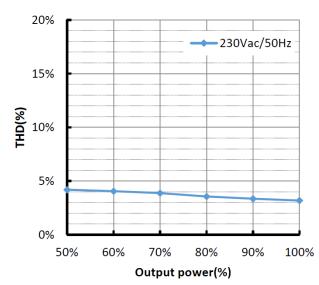






OT FIT 200/220-240/24 P





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 shutting the unit down, auto reversible when temperature decreases.
- Temperature on t_c point must not exceed indicated t_c max. Derating for LED load is necessary if t_a is higher than 50°C.
- Waterproofing: use waterproof connectors (IP66&IP67) for the connection between driver and mains, driver and LED modules.
- Replacing driver cables will damage the driver
- Dimming compatibility: the OT FIT driver is able work with OSRAM dimmer as dimmable solution.
 For example: OTi DALI DIM, OT DIM, OT DMX RGBW DIM, OT BLE DIM. It is recommended to check the performance of total system in design-in stage.
- No-load conditions: hot plug-in or secondary switching of LEDs is not permitted. Please take care to switch the driver off via L. Do not put switch between ECG and LED load.
- Intended for use with LED modules.
- The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.
- Application: the driver is intended for supply power to 24 V LED light sources like but not limited to –
 OSRAM LINEARlight FLEX® and Tec Flex LED flexible strips, OSRAM BackLED® and BoxLED® 24 V
 modules, OSRAM LINEARlight® Rigid FINESSE systems.

Ecodesign regulation information:

Intended for use with LED modules. The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable. Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.

Standards

Ordering information

EN 61347-1

EN 61347-2-13

EN 55015

EN 61547

EN 61000-3-2

EN 61000-3-3

EN 60598-1

EN 62384

Product name	EAN 10	EAN 40	Pieces / box
OT FIT 200/220-240/24 P	4062172085649	4062172085656	15

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