

Light is OSRAM

**OSRAM**

## OT FIT 150/220-240/12 P

### Benefits

Small housing design for target application installation.  
 Versatile scope of application due to output power range of up to 150 W.  
 Robust and durable design for outdoor application.

### Applications

Signage lighting, channel letter lighting, backlighting, etc...  
 Suitable for indoor and outdoor SELV installations

### Approvals



L	202 mm
L1	188 mm
B	53 mm
H	31,5 mm

In preparation, if not already printed on product label

### Product Features

- Suitable for Class I/II luminaire
- SELV, Vout: 12,5 V
- Wide  $t_a$  range -40°C ... +70°C
- Driver with output power range of up to 150 W
- High efficiency up to 91 %
- Smart Power Supply
- THD<5% at full load
- High IP protection (IP66 / IP67)
- High surge protection: up to 6 kV (L-N) / 6 kV (L/N-PE)
- Mains voltage: 220 – 240 V<sub>AC</sub>
- Overload protection
- Over temperature protection
- Short circuit protection
- 50'000 h lifetime at  $t_c$  80°C
- 5 years guarantee\*

\*10% cumulated failure

## Electrical specification

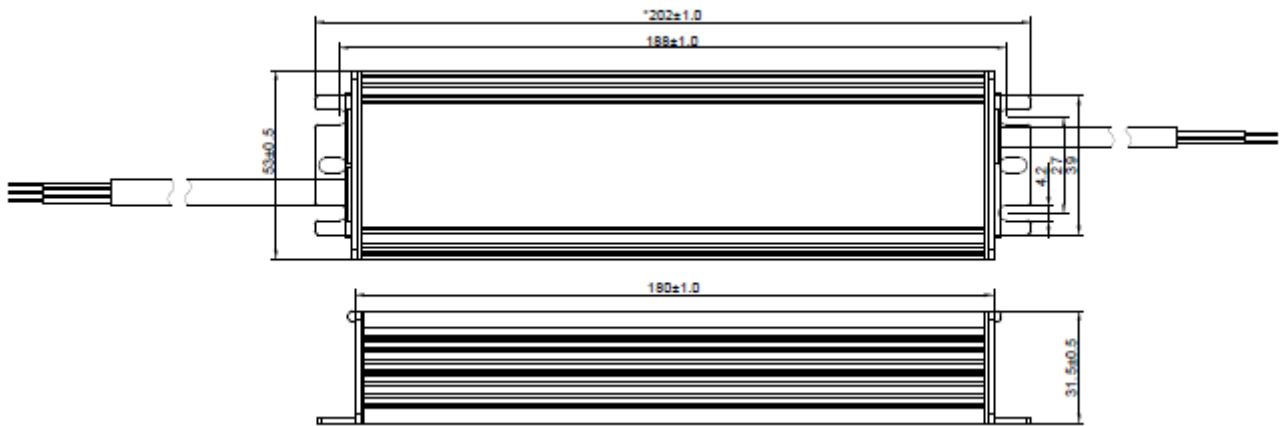
	Item	Value	Unit	Remarks
Input	Nominal voltage	220 - 240	V	
	Mains frequency	50 / 60	Hz	
	Input voltage AC	198 - 264	V	
	Nominal current	0.85	A	Full load, 230 V <sub>AC</sub> , 50 Hz / 60 Hz
	Total Harmonic Distortion (THD)	< 5	%	Full load, 230 V <sub>AC</sub> , 50 Hz / 60 Hz
	Power factor $\lambda$	0,95		Typical, Full load, 230 V <sub>AC</sub> , 50 Hz / 60 Hz,
	ECG Efficiency	91	%	Typical, Full load, 230 V <sub>AC</sub> , 50 Hz,
	Power loss in no load condition			Not applicable
	Protection class	I		
	Suitable for fixtures with prot. Class	I / II		
	Inrush current	55	A	At Full Load, 240 VAC, Cold Start Duration = 500 $\mu$ s - 50% I <sub>pk</sub>
	Max. ECG no. on circuit breaker 10 A (B)	4		
	Max. ECG no. on circuit breaker 16 A (B)	7		
	Max. ECG no. on circuit breaker 25 A (B)	10		
	Max. ECG no. on circuit breaker 10 A (C)	9		
Max. ECG no. on circuit breaker 16 A (C)	16			
Max. ECG no. on circuit breaker 25 A (C)	23			
Output	Nominal output voltage	12,5	V	
	Voltage accuracy	+/- 3	%	
	Voltage ripple	< 3	%	V <sub>pk-pk</sub> at 100 Hz; Full load
	Nominal output power	150	W	
	Device power loss	14.8	W	
	Maximum power	150	W	
	Capacitive load	20	$\mu$ F/A	Linear modules allowed
	Galvanic isolation	SELV		
	U-OUT (working voltage)	13	V	
Environmental	Ambient temperature range	-40... +50	°C	Fullload, t <sub>c</sub> not exceeded
		+50...+70		Load derating, t <sub>c</sub> not exceeded, Refer to derating curve
	Max. temperature at t <sub>c</sub> test point	90	°C	Measured on t <sub>c</sub> point indicated of the prod label, t <sub>a</sub> not exceeded
	Storage temperature range	-40...+85	°C	
	Permitted rel. humidity during operation	5 ... 85	%	Not condensing
	Surge capability (L/N)	6	kV	L/N acc to. EN 61547
	Surge capability (L-N/PE)	6	kV	L-N/PE acc to. EN 61547
	Environmental rating	Outdoor		
	IP protection class	IP 66 / IP 67		
	Mains switching cycles	> 100'000	cycles	At t <sub>a</sub> = 25°C
	Expected ECG lifetime	50'000	h	t <sub>c</sub> = 80°C - 0,2% / 1'000 h failure rate
	No-load proof	Yes		
	Overheating protection	Yes		Auto recovery
	Overload protection	Yes		Auto recovery
Short-circuit protection	Yes		Auto recovery	
Dimension	Height	31,5	mm	
	Length	202	mm	Include mounting hanger
	Width	53	mm	
	Casing material	Metal		
	Mounting hole spacing, length	188	mm	
	Net weight	920	g	

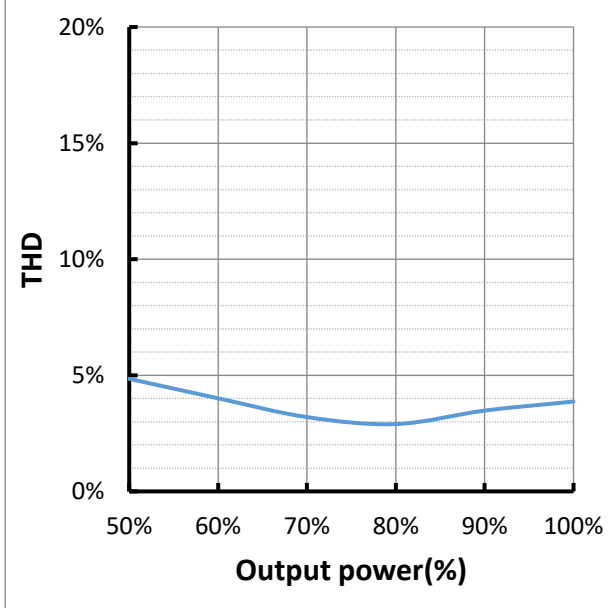
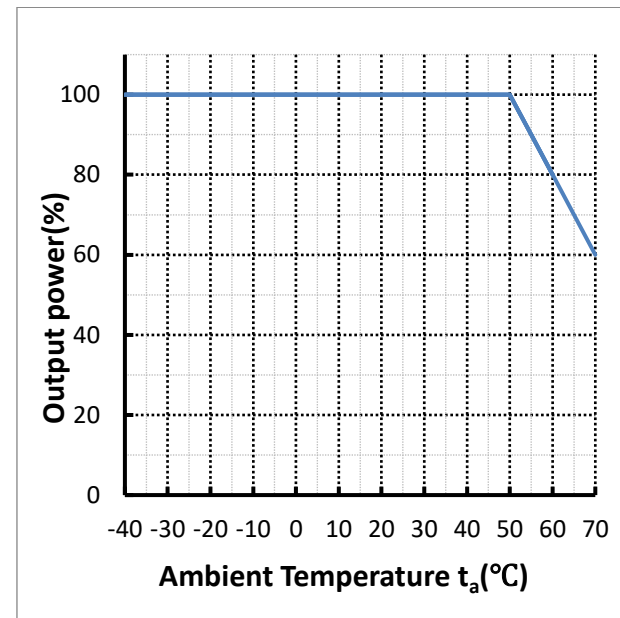
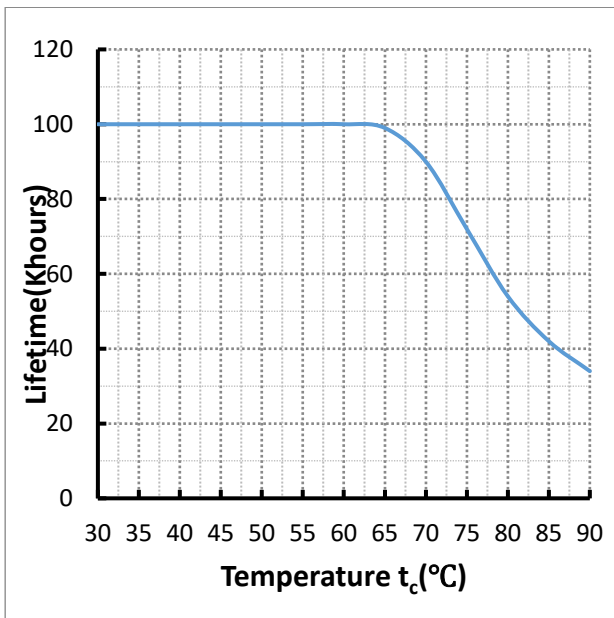
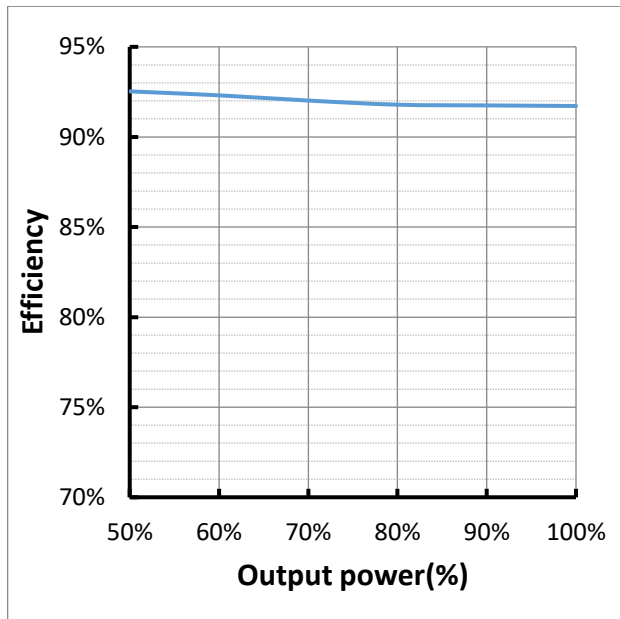
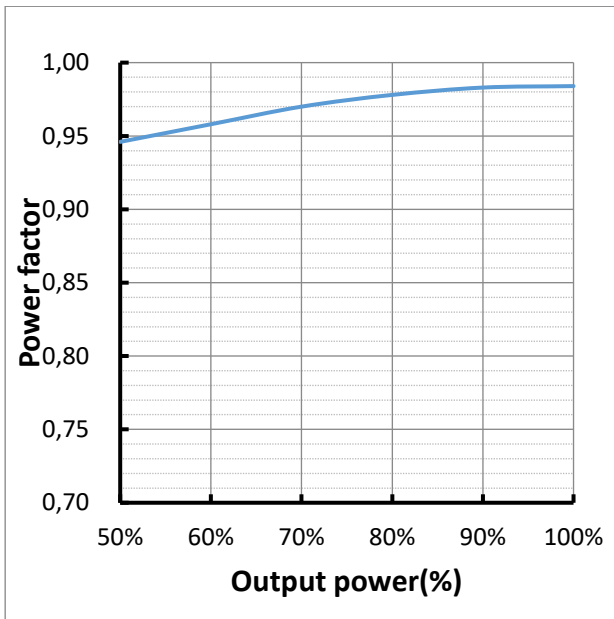
Input	Colour L and N	Blue / Brown/ Yellow and Green		
	Cable cross selection	1,0	mm <sup>2</sup>	H05RN-F/3x1.0 mm <sup>2</sup>
	Wire preparation length	60	mm	
	Wire peeling length	10	mm	
Output	Colour + and -	Red / Black		
	Cable cross selection	1,5	mm <sup>2</sup>	H07RN-F/2X1.5mm <sup>2</sup>
	Wire preparation length	60	mm	
	Wire peeling length	10	mm	
	Lead length	300	mm	

**Protection**

Over temperature, Overload, Short-circuit, open-circuit, Reversible.

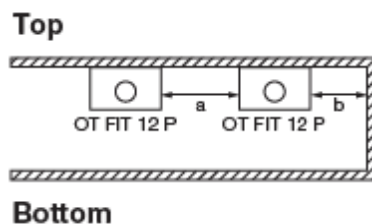
**Dimension:**





## 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  $t_c$  max. Derating for LED load is necessary if  $t_a$  is higher than 50°C.
- **No load operation:** Please take care to switch off the driver via L. Hot plug-in or secondary switching of LEDs is not permitted.
- **Waterproof:** the driver is designed for outdoor installation with IP66 / IP67 protection grade. Input and output cables must be connected by means of a sealed cable clamp.
- **LED wire length:** 10 m EMI verified. Max cable length of 10 m recommended.  
EMI may be interfered by on site installation condition with longer cable. For longer cable (> 10 m), cable with larger cross section area is needed to cover voltage drop.
- **Exit cables:** the supplied, internally wired cables cannot be replaced; if the cord is damaged, the LED driver must be replaced.
- Keep enough distance from the ceiling corner or other drivers to avoid overheat. The driver must not be covered by flammable materials. At critical conditions showed by below picture (full load,  $t_a = 50^\circ\text{C}$ , driver on the corner of ceiling), refer to below distance. At normal installation, distance can be shorter but temperature at  $t_c$  point must be within  $t_c$  max.



a:  $\geq 10\text{cm}$ ; b:  $\geq 5\text{cm}$

- For detailed application notes, please refer to user instructions.

## Standards

EN 61347-1  
 EN 61347-2-13  
 EN 55015  
 EN 61547  
 EN 61000-3-2  
 EN 61000-3-3  
 EN 60598-1  
 EN 62384

## Ordering information

Product name	EAN 10	EAN 40	Pieces / Box
OT FIT 150/220-240/12 P	4062172133500	4062172133517	15

OSRAM GmbH

Head Office:

Marcel-Breuer-Strasse 6  
 80807 Munich, Germany  
 Phone +49 89 6213-0  
 www.osram.com

**OSRAM**