## **Light is OSRAM**

# )SRAM

# OT FIT 60/220-240/12 P

#### **Benefits**

Small housing design for target application installation. Versatile scope of application due to output power range of up to 60W.

Robust and durable design for outdoor application.



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

## **Approvals**



















In preparation, if not already printed on product label

## **Product Features**

- Suitable for Class I/II luminaire
- SELV, Vout: 12,5 V
- Wide t<sub>a</sub> range -40°C ... +70°C
- Driver with output power range of up to 60 W
- High efficiency up to 87%
- **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<sub>c</sub> 80°C
- 5 years guarantee\*

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<sup>\*10%</sup> cumulated failure

**Electrical specification** 

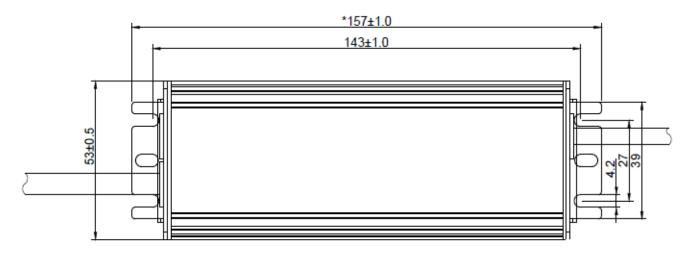
Mominal voltage  Mains frequency Input voltage AC  Nominal current  Total Harmonic Distortion (THD)  Power factor λ  ECG Efficiency	220 - 240 50 / 60 198 - 264 0.36 < 5	V Hz V	
Input voltage AC  Nominal current  Total Harmonic Distortion (THD)  Power factor λ	198 - 264 0.36	V	
Nominal current  Total Harmonic Distortion (THD)  Power factor λ	0.36		
Total Harmonic Distortion (THD)  Power factor $\lambda$			
Power factor $\lambda$	< 5	A	Full load, 230 V <sub>AC</sub> , 50 Hz / 60 Hz
		%	Full load, 230 V <sub>AC</sub> , 50 Hz / 60 Hz
ECG Efficiency	0,95		Typical, Full load, 230 V <sub>AC</sub> , 50 Hz / 60 Hz
	87	%	Typical, Full load, 230 V <sub>AC</sub> , 50 Hz
Power loss in no load condition			Not applicable
Protection class	1		
Suitable for fixtures with prot. Class	1 / 11		
Inrush current	45	А	At Full Load ,240 V <sub>AC</sub> , Cold Start  Duration=250 µs 50%lpk—50%lpk
Max. ECG no. on circuit breaker 10 A (B)	6		
Max. ECG no. on circuit breaker 16 A (B)	13		
Max. ECG no. on circuit breaker 25 A (B)	22		
Max. ECG no. on circuit breaker 10 A (C)	14		
Max. ECG no. on circuit breaker 16 A (C)	23		
Max. ECG no. on circuit breaker 25 A (C)	36		
Nominal output voltage	12,5	V	
Voltage accuracy	+/- 3	%	
Voltage ripple	< 3	%	Vpk-pk at 100 Hz; Full load
Nominal output power	60	W	
Device power loss	8.6	W	
Maximum power	60	W	
Capacitive load	20	μF/A	Linear modules allowed
Galvanic isolation	SELV		
U-OUT (working voltage)	13	V	
	-40+50		At full load, t <sub>c</sub> not exceeded
Ambient temperature range	+50+70	°C	Load derating, t <sub>c</sub> not exceeded Refer to derating curve
Max. temperature at t <sub>c</sub> test point	80	°C	Measured on to point indicated of the proclabel, ta 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	$t_c = 80^{\circ}\text{C} - 0.2\% / 1'000 \text{ h failure rate}$
No-load proof	Yes		
Overheating protection	Yes		Auto recovery
Overload protection	Yes		Auto recovery
Short-circuit protection	Yes		Auto recovery
Height	31.5	mm	
Length	157	mm	Includes mounting hangers
Width	53	mm	
Casing material	Metal		
Mounting hole spacing, length	143	mm	
	Max. ECG no. on circuit breaker 16 A (B)  Max. ECG no. on circuit breaker 25 A (B)  Max. ECG no. on circuit breaker 10 A (C)  Max. ECG no. on circuit breaker 16 A (C)  Max. ECG no. on circuit breaker 16 A (C)  Max. ECG no. on circuit breaker 25 A (C)  Max. ECG no. on circuit breaker 25 A (C)  Nominal output voltage  Voltage accuracy  Voltage ripple  Nominal output power  Device power loss  Maximum power  Capacitive load  Galvanic isolation  U-OUT (working voltage)  Ambient temperature range  Max. temperature at t <sub>c</sub> test point  Storage temperature range  Permitted rel. humidity during operation  Surge capability (L/N)  Surge capability (L-N/PE)  Environmental rating  IP protection class  Mains switching cycles  Expected ECG lifetime  No-load proof  Overheating protection  Overload protection  Short-circuit protection  Height  Length  Width  Casing material	Max. ECG no. on circuit breaker 16 A (B)         13           Max. ECG no. on circuit breaker 25 A (B)         22           Max. ECG no. on circuit breaker 10 A (C)         14           Max. ECG no. on circuit breaker 16 A (C)         36           Max. ECG no. on circuit breaker 25 A (C)         36           Nominal output voltage         12,5           Voltage accuracy         +/- 3           Voltage ripple         <3	Max. ECG no. on circuit breaker 16 A (B)         13           Max. ECG no. on circuit breaker 25 A (B)         22           Max. ECG no. on circuit breaker 10 A (C)         14           Max. ECG no. on circuit breaker 16 A (C)         23           Max. ECG no. on circuit breaker 25 A (C)         36           Nominal output voltage         12,5         V           Voltage accuracy         +/- 3         %           Voltage ripple         <3

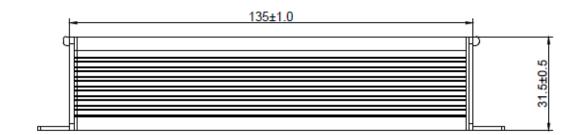
	Colour L / N / GND	Blue / Brown/ Yellow and Green		
Input	Cable cross selection	1,0	mm²	H05RN-F/3x1.0 mm <sup>2</sup>
=	Wire preparation length	60	mm	
	Wire peeling length	10	mm	
	Lead length	300	mm	
	Colour + and -	Red / Black		
Ħ	Cable cross selection	1,0	mm <sup>2</sup>	H05RN-F/2x1.0 mm <sup>2</sup>
Output	Wire preparation length	60	mm	
0	Wire peeling length	10	mm	
	Lead length	300	mm	

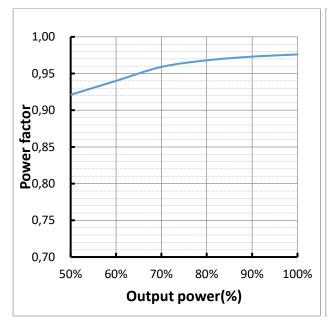
## **Protection**

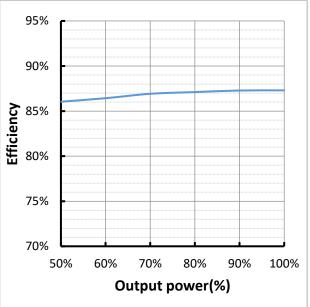
Over temperature, Overload, Short-circuit, open-circuit, Reversible.

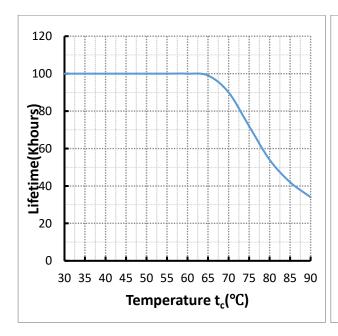
## **Dimension:**

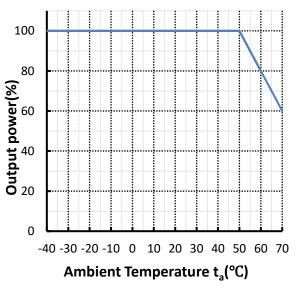


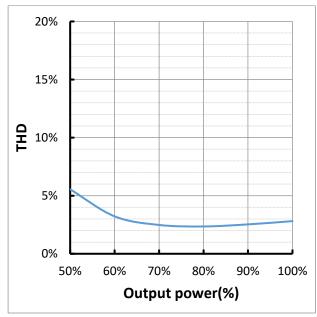






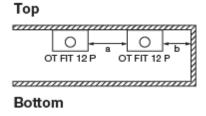






#### Remarks

- 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<sub>c</sub> point must not exceed t<sub>c</sub> max.
   Derating for LED load is necessary if t<sub>a</sub> 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<sub>a</sub> = 50°C, driver on the corner of ceiling), refer to below distances. At normal installation, distance can be shorter but temperature at t<sub>c</sub> point must be within t<sub>c</sub> max.



a: ≥1cm; b: ≥1 cm

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

## **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 60/220-240/12 P	4062172133487	4062172133494	15

## OSRAM GmbH

Head Office:

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



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