

Light is OSRAM

**OSRAM**

## OT FIT 80/220-240/24 P

### Benefits

Small housing design for mounting on the cove  
or into linear luminaires  
Versatile scope of application due to output power  
range of up to 80W  
UV resistant  
Salt mist resistant

### Applications

In areas as hotels, luminous Signage, cruises ship,  
Public squares and architecture lighting  
Suitable for indoor and outdoor SELV installations

### Approvals



In preparation, if not already printed on product label



L	167 mm
L1	153 mm
B	53 mm
H	31.5 mm

### Product Features

- Suitable for Class I/II luminaire
- SELV, Vout:24.2V
- Wide  $t_a$  range -40 °C ... +50 °C
- Driver with output power range of up to 80 W
- High efficiency up to 88.5 %
- Smart Power Supply
- THD<5% at full load
- High IP protection (IP66 & IP67)
- High surge protection: up to 4 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

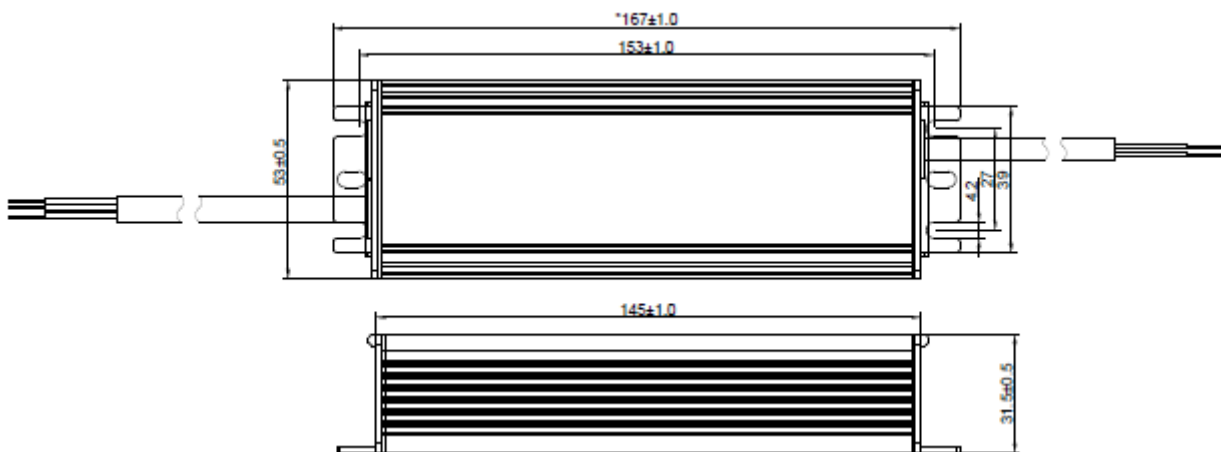
	Item	Value	Unit	Remarks
Input	Nominal voltage	220 – 240	V	
	Mains frequency	50 / 60	Hz	
	Input voltage AC	198-264	V	
	Nominal current	<0.41	A	Full load, 230 Vac, 50 Hz / 60 Hz
	Total Harmonic Distortion (THD)	<5	%	Full load, 230 Vac, 50 Hz / 60 Hz
	Power factor $\lambda$	0,95		Typical, Full load, 230 Vac, 50 Hz / 60 Hz,
	ECG Efficiency	88.5	%	Typical, Full load, 230Vac, 50Hz,
	Power loss in no load condition	<1	W	230Vac, 50Hz
	Protection class	I		
	Suitable for fixtures with prot. Class	I / II		
	Inrush current	<50	A	At Full Load ,240VAC,Cold Start Duration=250uS 50%Ipk—50%Ipk
	Max. ECG no. on circuit breaker 10 A (B)	17		
	Max. ECG no. on circuit breaker 16 A (B)	27		
	Max. ECG no. on circuit breaker 25 A (B)	60		
	Max. ECG no. on circuit breaker 10 A (C)	22		
	Max. ECG no. on circuit breaker 16 A (C)	35		
Max. ECG no. on circuit breaker 25 A (C)	60			
Output	Nominal output voltage	24,2	V	
	Voltage accuracy	+/- 3	%	
	Voltage ripple	<2	%	Vpk-pk at 100 Hz; Full load
	Nominal output power	80	W	
	Device power loss	10.3	W	
	Maximum power	80	W	
	Capacitive load	20	uF/A	Linear modules allowed
	Galvanic isolation	SELV		
	U-OUT (working voltage)	<25.5	V	
Environmental	Ambient temperature range	-40...+50	°C	At fullload, $t_c$ not exceeded
		+50...+70		Load derating, $t_c$ not exceeded, Refer to derating curve
	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	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 $t_a=25^\circ\text{C}$
	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	
Dimension	Height	31.5	mm	
	Length	167	mm	Include mounting hanger
	Width	53	mm	
	Casing material	Metal		

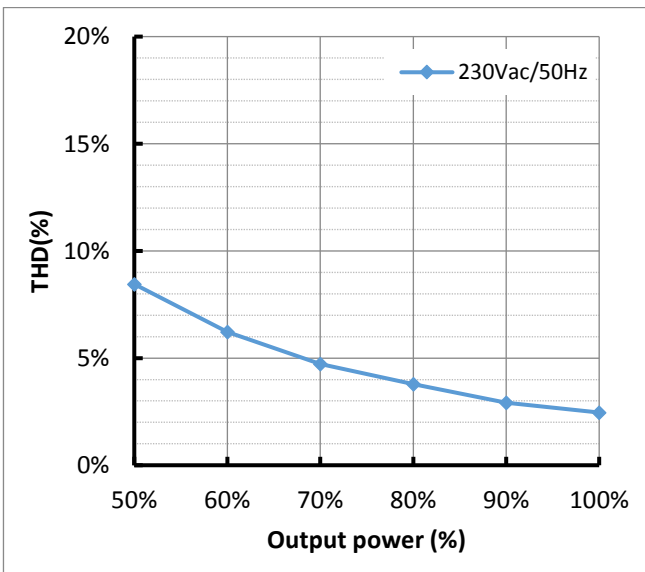
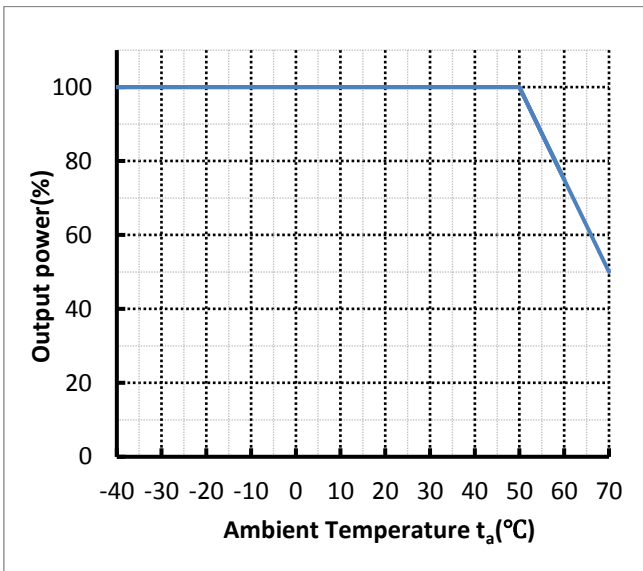
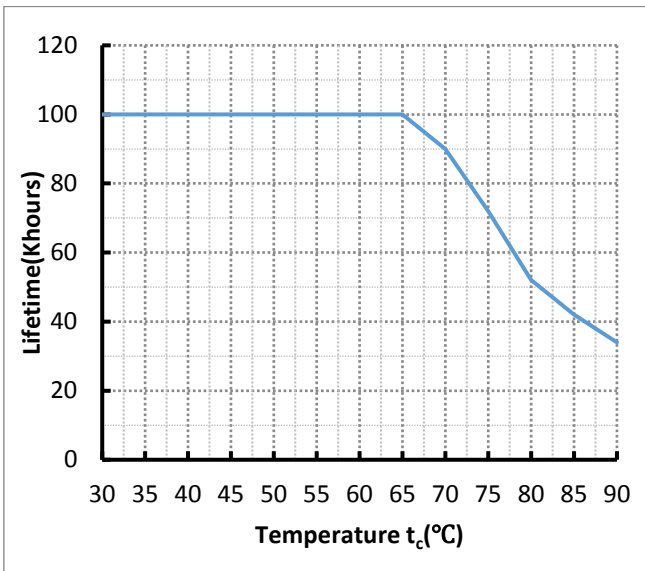
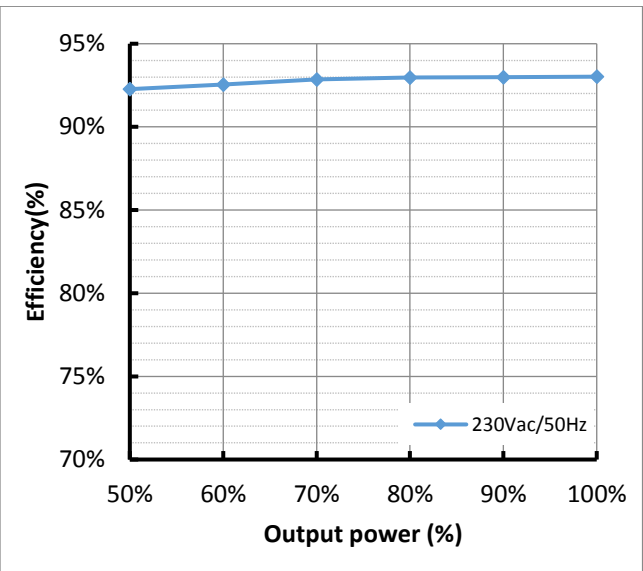
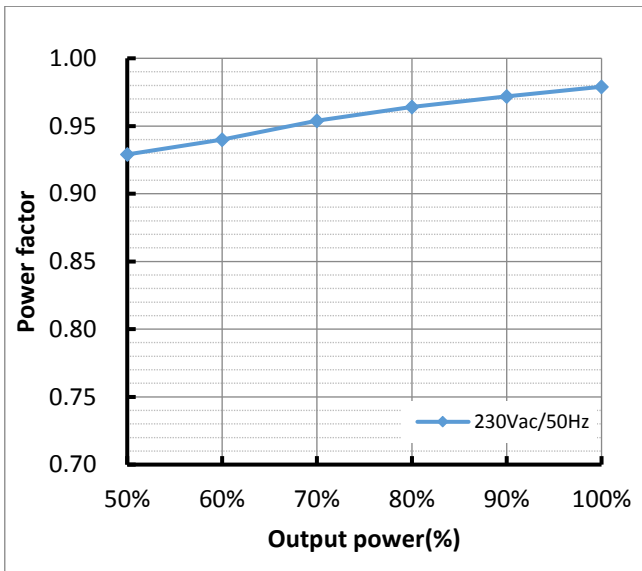
	Mounting hole spacing, length	153	mm	
	Net weight	500	g	
Input	Colour L / N / GND	Blue / Brown/ Yellow and Green		
	Cable cross selection	1,0	mm <sup>2</sup>	H05RN-F/3x1.0 mm <sup>2</sup>
	Wire preparation length	60	mm	
	Wire peeling length	10	mm	
	Lead length	300	mm	
Output	Colour + and -	Red / Black		
	Cable cross selection	1,0	mm <sup>2</sup>	H05RN-F/2x1.0 mm <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.

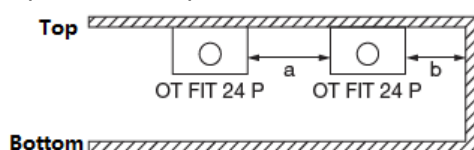
**Dimension:**





## Remarks

- Output short circuit protection: auto reversible when fault removed
- Output overload protection: auto reversible when fault removed
- Over temperature protection: auto reversible when fault removed
- No load operation: do not put switch between ECG and load for energy saving
- Use waterproof connectors (IP66&IP67) for the connection between driver and main, driver and LED module
- Load cable length: 3m verified with EMI pass. Recommendation of max cable length 10m  
EMI may be interfered by on site installation condition with longer cable. For longer cable (>10m), cable with larger cross sectional area is needed to cover voltage drop
- Replace the cable of driver will damage the driver
- Temperature on  $t_c$  point must not be exceeded  $t_c$  max. Derating for LED load is necessary if  $t_a$  higher than  $50^\circ\text{C}$ .
- Keep enough distance from the ceiling corner or other drivers to avoid overheat. The driver is not allowed to cover by flammable materials. At critical condition 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 within  $t_c$  max.



a:  $\geq 1\text{cm}$ ; b:  $\geq 1\text{cm}$ ;

- For detail application note, please refer to User instruction.

## 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 80/220-240/24 P	4062172085465	4062172085465	15

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