

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
Robust and durable design for outdoor application



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

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

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_{AC}
- 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

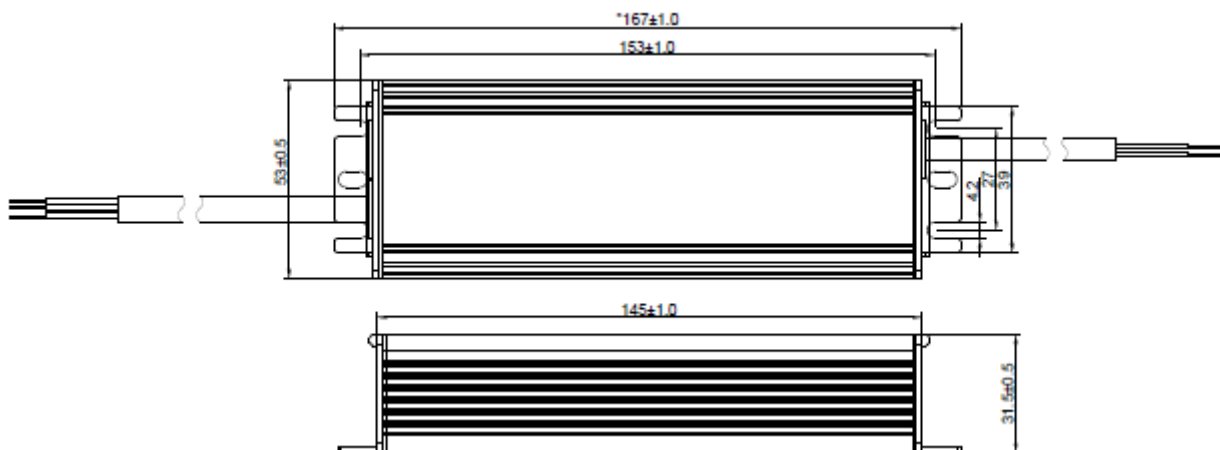
	Item	Value	Unit	Remarks
Input	Nominal voltage	220 – 240	V	
	Mains frequency	50 / 60	Hz	
	Input voltage AC	198-264	V	
	Nominal current	<0.41	A	Full load, 230 Vac, 50 Hz / 60 Hz
	Total Harmonic Distortion (THD)	<5	%	Full load, 230 Vac, 50 Hz / 60 Hz
	Power factor λ	0,95		Typical, Full load, 230 Vac, 50 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%I _{pk} —50%I _{pk}
	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	%	V _{pk-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		

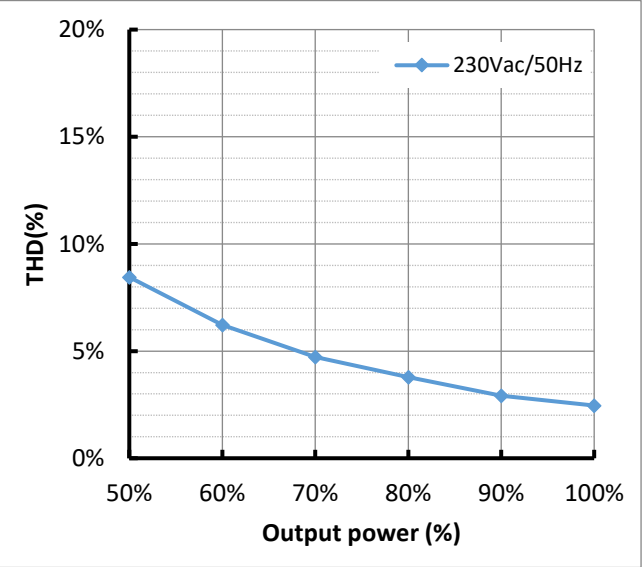
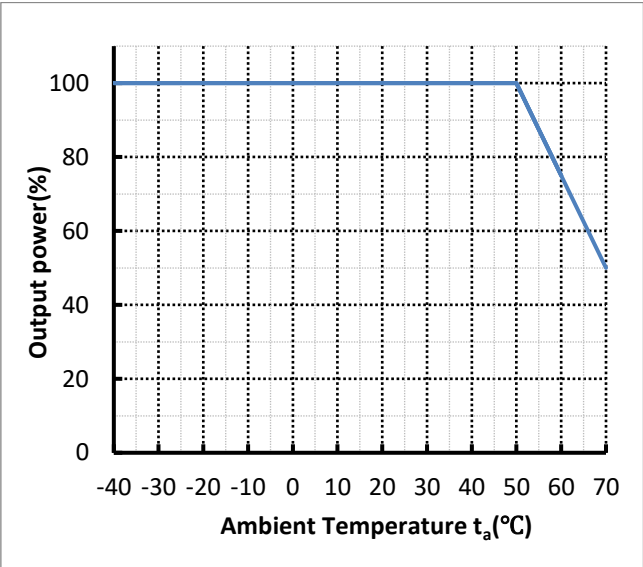
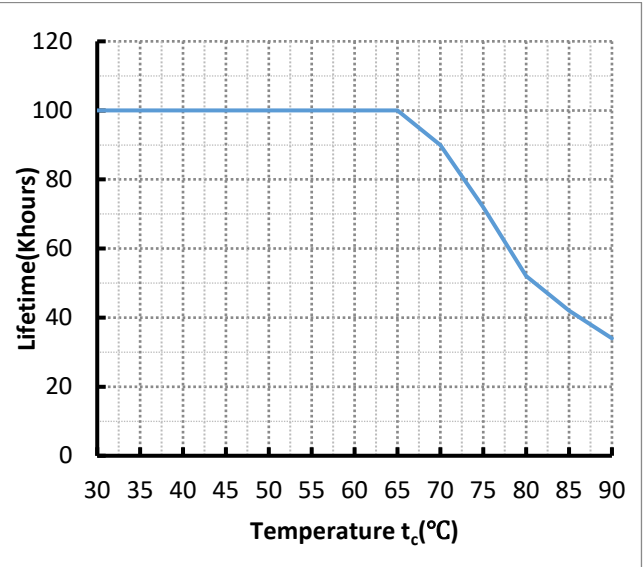
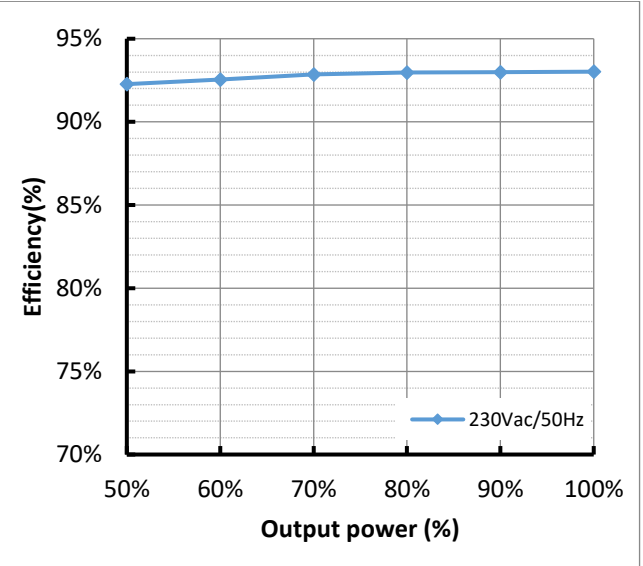
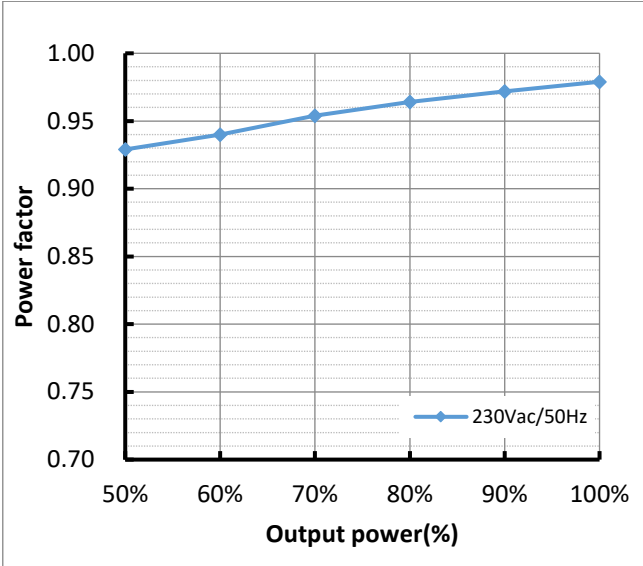
	Mounting hole spacing, length	153	mm	
	Net weight	500	g	
Input	Colour L / N / GND	Blue / Brown/ Yellow and Green		
	Cable cross selection	1,0	mm ²	H05RN-F/3x1.0 mm ²
	Wire preparation length	60	mm	
	Wire peeling length	10	mm	
	Lead length	300	mm	
Output	Colour + and -	Red / Black		
	Cable cross selection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

Protection

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

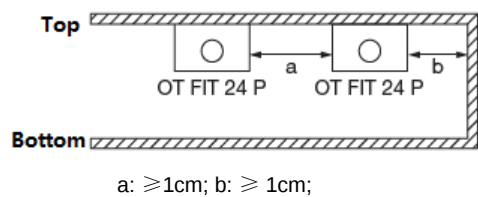
Dimension:





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°C .
- Keep enough distance from the ceiling corner or other drivers to avoid overheating. 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.



- 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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