Light is OSRAM

OT 250/220-240/24 P

Benefits

Slim form factor for mounting on the cove or into linear luminaires Versatile scope of application due to output power range of up to 20W Suitable for installation under Sunlight 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

Product Features

- Suitable for Class I/II luminaire
- SELV
- Wide t_a range -30 °C ... +55 °C
- Driver with output power range of up to 250 W
- High efficiency up to 92 %
- Smart Power Supply
- High IP protection (IP67)
- High surge protection: up to 4 kV (L-N) / 6 kV (L/N-PE)

- Mains voltage:
 220 240 V_{AC} / 176 250 V_{DC}
- Overload protection
- Over temperature protection
- Short circuit protection
- t_c max = +85 °C max
- 50'000 h lifetime at t_c max
- 5 years guarantee*
- Output cable can up to 10 m

*10% cumulated failure; OSRAM system guarantee



OSRAM

L	265 mm
L1	250 mm
В	68 mm
Н	39,5 mm

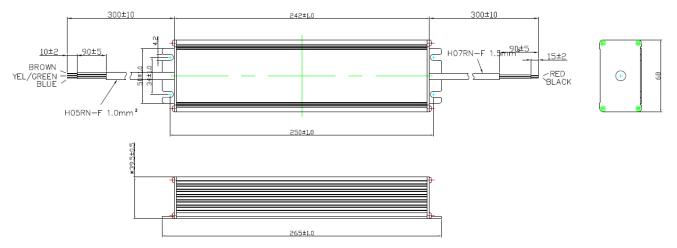
Electrical specification

	Item	Value	Unit	Remarks
	Nominal voltage	220 – 240	V	
	Mains frequency	50 / 60	Hz	
	Input voltage AC	198-264	V	
INPUT	Input voltage DC	176-250	V	
	Nominal current	1,18	А	Full load, 230 Vac, 50 Hz
	Total Harmonic Distortion (THD)	<15	%	Full load, 230 Vac, 50 Hz / 60 Hz see graphs
	Power factor λ	0,95		Typical, Full load, 230 Vac, 50 Hz / 60 Hz, see graphs
-	ECG Efficiency	92	%	Typical, Full load, 230Vac, 50Hz, see graphs
	Power loss in stand-by mode	<500	W	230Vac, 50Hz
	Protection class	1		
	Suitable for fixtures with prot. Class	1711		
	Inrush current	75	А	At Full Load ,240Vac,Cold Start Duration=900uS 50%lpk—50%lpk
	Max. units per circuit breaker	TBD		
	Nominal output voltage	24,2	V	
	Voltage accuracy	+/- 2	%	LOAD REGULATION
	Voltage ripple	< 1,5	%	Vpk-pk at 100 Hz; Full load
5	Nominal output power	125-250	W	
ουτρυτ	Device power loss	21,7	W	Full load, 230 Vac, 50 Hz
or	Maximum power	250	W	
	Capacitive load	1	uF/A	Linear modules allowed
	Galvanic isolation	SELV		
	U-OUT (working voltage)	30	V	
	Ambient temperature range	-30℃…+55℃	°C	
	Max. temperature at tc test point	85	°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
AL	Surge capability (L/N)	4	kV	L/N acc to. EN 61547
ENT	Surge capability (L-N/PE)	6	kV	L-N/PE acc to. EN 61547
ENVIRONMENTAL	Environmental rating	Outdoor		
IRO	IP protection class	IP 67		
ENV	Mains switching cycles	> 100'000	cycles	Ta=25℃
	Expected ECG lifetime	50'000	h	Ta=55℃, 10% failure rate
	No-load proof	Yes		
	Overheating protection	Yes		Auto recovery
	Overload protection	Yes		Auto recovery
	Short-circuit protection	Yes		Auto recovery
	Type of connection, output side	Cables		Min 0,75 mm ²
DIMENSIO	Height	39,5	mm	
	Length	265	mm	
	Width	68	mm	
	Casing material	Metal		

	Mounting hole spacing, length	250	mm	
INPUT	Colour L and N	Blue / Brown		
	Cable cross selection	1,0	mm ²	H05RN-F/3x1.0 mm ²
	Wire preparation length	90	mm	
	Wire peeling length	10	mm	
	Lead length	300	mm	
	Colour + and -	Red / Black		
5	Cable cross selection	1,5	mm^2	H07RN-F/2x1.5 mm ²
OUTPUT	Wire preparation length	90	mm	
	Wire peeling length	15	mm	
	Lead length	300	mm	

Protection

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



Remarks

- **Output under power operation**: the output setting is still effective if the load is below the minimum output power without any safety issue, but normal performance such as THD, EMI, etc.. is not guaranteed. See typical operation window graph for details.
- **Output short circuit protection**: short circuit current is limited without damage to the unit. Be sure the load is designed to withstand the short circuit current as well. See typical operation window graph for details. The protection is self-restoring.
- **Output overload protection**: In case of heavy output power of the load (above about 120% of full load), the unit switches off. The protection is self-restoring.
- **Over temperature protection**: the driver is protected against temporary overheating when tc exceeds. The protection is self-restoring.
- **No load operation**: do not put a switch between load and unit at DC condition for Erp consideration.
- Touch current: lower than 0.7 mA, according to EN 60598-1 ann. G and EN 61347-1 ann. A.
- **Earthing:** The protective earth (PE) wire must be connected to the heat sink of the LED module to improve the surge withstand capability of the system and EMI in critical luminaries. the LED drivers are not permitted to use the control gear also without connection to earth.
- Startup time: The startup time to reach the set output current is less than 1 s at full load.
- **External flexible cable or cord:** The external flexible cable or cord of the LED driver cannot be replaced; if the cord is damaged, the LED driver shall be destroyed.

- Waterproof: the driver is designed for outdoor installation with IP67 waterproof, during and after installation, the connection of input terminal and output terminal should be enclosed to far away from water source. Terminal block need provide IP67 waterproof if IP67 application needed.
- **Installation:** The wire connection should be installed by professional person, to provide reinforced insulation between L/N terminal block and accessible part, suggest to use terminal block which conform to EN60998-2-1 or EN60998-2-2, and with effective fixing, such as buckle. The terminal block for the supply can be:
 - Screw or crewless;
 - Three terminals
 - Min. 250 V, 0.75 mm² 2.5 mm²;
 - Skinning about 10 mm at the ends of all conductors.
- WEEE: Electrical products must not be thrown out with domestic waste. They must be taken to a communal collecting point for environmentally friendly disposal in accordance with local regulations. Contact your local authorities or stockist for advice on recycling. The packaging material is recyclable. Dispose of the packaging in an environmentally friendly manner and make it available for the recyclable material collection-service.

EAN 10

4052899546028

EAN 40

4052899546035

Pieces / Box

20

• For further details please consult the application note

Standards

Ordering information

Product name

OT 250/220-240/24 P

EN 61347-1 EN 61347-2-13 EN 55015 EN 61547

EN 61000-3-2 EN 61000-3-3

EN 60598-1

EN 62384

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