Light is OSRAM

OT 100/220-240/24 P

L	240mm
L1	227 mm
B	50 mm
H	34 mm

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 106W
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 106 W
- High efficiency up to 90 %
- 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 = +80 °C
- 50’000 h lifetime at t_c max.
- 5 years guarantee*
- Output cable can up to 10 m

*10% cumulated failure

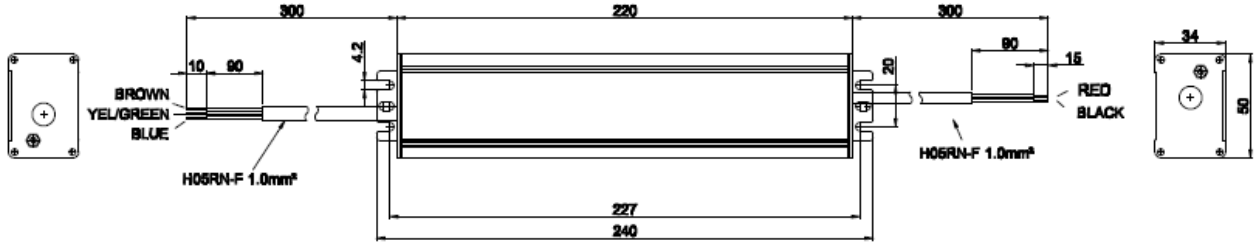
Electrical specification

	Item	Value	Unit	Remarks
Input	Nominal voltage	220 – 240	V	
	Mains frequency	50 / 60	Hz	
	Input voltage AC	198-264	V	
	Input voltage DC	176-250	V	
	Nominal current	0.52	A	Full load, 230 Vac, 50 Hz
	Total Harmonic Distortion (THD)	<15	%	Full load, 230 Vac, 50 Hz / 60 Hz
	Power factor λ	0,95		Typical, Full load, 230 Vac, 50 Hz / 60 Hz,
	ECG Efficiency	90	%	Typical, Full load, 230Vac, 50Hz,
	Power loss in stand-by mode	<500	mW	230Vac, 50Hz
	Protection class	I		
	Suitable for fixtures with prot. Class	I / II		
	Inrush current	60	A	At Full Load ,240VAC,Cold Start Duration=380uS 50%Ipk—50%Ipk
	Max. ECG no. on circuit breaker 10 A (B)	10		
	Max. ECG no. on circuit breaker 16 A (B)	16		
	Max. ECG no. on circuit breaker 25 A (B)	26		
	Max. ECG no. on circuit breaker 10 A (C)	14		
	Max. ECG no. on circuit breaker 16 A (C)	20		
Output	Nominal output voltage	24,2	V	
	Voltage accuracy	+/- 2	%	
	Voltage ripple	<1.5	%	Vpk-pk at 100 Hz; Full load
	Nominal output power	55-106	W	
	Device power loss	11,8	W	
	Maximum power	106	W	
	Capacitive load	1	uF/A	Linear modules allowed
	Galvanic isolation	SELV		
	U-OUT (working voltage)	30	V	
Environmental	Ambient temperature range	-30…+55	°C	
	Max. temperature at tc test point	+80	°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 67		
	Mains switching cycles	> 100'000	cycles	At Ta=25℃
	Expected ECG lifetime	50'000	h	t_c = 85°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
	Type of connection, output side	Terminal		Min 0,75 mm^2
Dimension	Height	34	mm	
	Length	240	mm	Include mounting hanger
	Width	50	mm	
	Casing material	Metal		

	Wire prep. length, input side	5	mm	
	Wire prep. length, output side	5	mm	
	Mounting hole spacing, length	227	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	
Output	Colour + and -	Red / Black		
	Cable cross selection	1,0	mm^2	H05RN-F/2x1.0 mm^2
	Wire preparation length	90	mm	
	Wire peeling length	15	mm	
	Lead length	300	mm	

Protection

Over temperature, Overload, Short-circuit, Input overvoltage, 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**: In DC condition, do not to switch on/off the load from the secondary side.
- **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 mm^2 – 2.5 mm^2;
  - 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 stockiest 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.
- For further details please consult the application note

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 100/220-240/24 P	4052899545984	4052899545991	20

OSRAM GmbH

Head Office:

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