Light is OSRAM

SRAM

OT 130/220-240/24 DIM P

Dimmable range 1% - 100%

Benefits

Dimmable output range from 1 to 10V DC functionality 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 luminaires
- **SELV**
- Wide t_a range -30 ... +55 °C
- Driver with output power range of up to 140 W
- High efficiency up to 90.5 %
- Dimmable via fully isolated 1...10 V interface
- Very low dimming: 1%
- High surge protection: up to 4 kV (L-N) / 6 kV (L/N-PE)

- Mains voltage: 220 - 240 VAC / 176 - 250 VDC
- Overload protection
- Over temperature protection
- Short circuit protection
- tc max = 80 °C
- 50'000 h lifetime at tc max.
- 5 years guarantee*
- High IP protection (IP67)
- Output cable can up to 10 m

^{*10%} cumulated failure

Electrical specification

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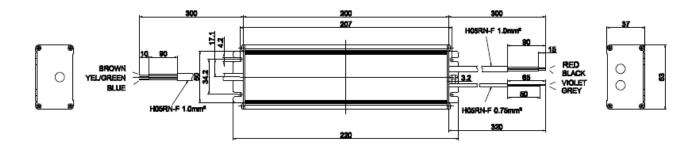
Status: Final

	Item	Value	Unit	Remarks
	Nominal voltage	220 – 240	V	
	Mains frequency	50 / 60	Hz	
Input	Input voltage AC	198-264	V	
	Input voltage DC	176-250	V	
	Nominal current	0,67	Α	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	90,5	%	Typical, Full load, 230Vac, 50Hz,
	Power loss in stand-by mode	<500	mW	230Vac, 50Hz
	Protection class	1		
	Suitable for fixtures with prot. Class	1/11		
	laruah aurrant	60	^	At Full Load ,240VAC,Cold Start
	Inrush current		Α	Duration=550uS 50%lpk—50%lpk
	Max. ECG no. on circuit breaker 10 A (B)	8		
	Max. ECG no. on circuit breaker 16 A (B)	13		
	Max. ECG no. on circuit breaker 25 A (B)	20		
	Max. ECG no. on circuit breaker 10 A (C)	10		
	Max. ECG no. on circuit breaker 16 A (C)	17		
	Nominal output voltage	24,2	V	
	Voltage accuracy	+/- 2	%	
	Voltage ripple	<1.5	%	Vpk-pk at 100 Hz; Full load
пţ	Nominal output power	70-140	W	
Output	Device power loss	14,7	W	
0	Maximum power	140	W	
	Capacitive load	1	uF/A	Linear modules allowed
	Galvanic isolation	SELV		
	U-OUT (working voltage)	30	V	
	Dimming interface	1-10	V	Built-in internal 100uA current source
ng	Dimming range	1-100	%	
min	Dimming method	PWM		
Dimmi	PWM frequency	500	Hz	
	Calvania laglation	Basic /		Basic Dim to Primary /
	Galvanic Isolation	Supplementary		Supplementary Dim to Secondary
	Ambient temperature range	-30+55	°C	
	May tamperature at to test point	80	°C	Measured on t _c point indicated of the prod
	Max. temperature at tc test point	60	C	label, t _a not exceeded
	Storage temperature range	-40+85	°C	
	Permitted rel. humidity during operation	5 – 85	%	Not condensing
tal	Surge capability (L/N)	4 (L/N) / 6 (L-N/PE)	kV	L/N acc to. EN 61547
nent	Environmental rating	Outdoor		
onn	IP protection class	IP 67		
Environmental	Mains switching cycles	>100,000	cycles	At Ta=25℃
Ш	Expected ECG lifetime	50'000	h	$t_c = 85^{\circ}\text{C} - 0.2\% / 1'000 \text{ h failure rate}$
	No-load proof	Yes		
	Overheating protection	Yes		Auto recovery
	Overload protection	Yes		Auto recovery
	Short-circuit protection	Yes		Auto recovery
	Type of connection, output side	Cables		Min 0,75 mm ²

	Height	37	mm	
Dimension	Length	220	mm	
	Width	63	mm	
lens	Casing material	Metal		
Din	Wire prep. length, input side	5	mm	
	Wire prep. length, output side	5	mm	
	Mounting hole spacing, length	207	mm	
	Colour L and N	Blue / Brown		
+	Cable cross selection	1,0	mm ²	H05RN-F/3x1.0 mm ²
Input	Wire preparation length	90	mm	
-	Wire peeling length	10	mm	
	Lead length	300	mm	
	Colour + and -	Red / Black		
Ħ	Cable cross selection	1,0	mm ²	H05RN-F/2x1.0 mm ²
Output	Wire preparation length	90	mm	
0	Wire peeling length	15	mm	
	Lead length	300	mm	
	Colour dim+ and dim-	Violet / Grey		
ng	Cable cross selection	0,75	mm ²	H05RN-F/2x0.75 mm ²
Dimming	Wire preparation length	65 / 50	mm	
ق	Wire peeling length	10	mm	
	Lead length	320	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 to 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.
- Dimming: The output power of the LED drivers can be adjusted by a 1...10 V interface and an external controller or external resistor. Dimming current range 1-100 % at fixed 500 Hz frequency. When dimming below 1 %, the output is off. Dimming in DC condition is not recommended due to EMI, or additional controlled is needed, however there is not functional and safety issue if dimming in DC condition.

Dimmer shall be basic insolated with mains supply.

- 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 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 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 130/220-240/24 DIM P	4052899545885	4052899545892	20

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