

Light is OSRAM

OSRAM

OT 20/220-240/24 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



L	178 mm
L1	169 mm
B	43 mm
H	25 mm

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 20 W
- High efficiency up to 83 %
- Dimmable via fully isolated 1...10V interface
- Very low dimming: 1%
- High surge protection: up to 4 kV (L-N)
- Mains voltage: 220 – 240 VAC / 176 – 250 VDC
- Overload protection
- Over temperature protection
- Short circuit protection
- t_c max = 85 °C
- 50'000 h lifetime at t_c
- 5 years guarantee*
- High IP protection (IP66)

*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	0.10	A	Full load, 230 Vac, 50 Hz
	Maximum input current	0.14	A	Full load, 198 Vac, 50 Hz
	Total Harmonic Distortion (THD)	< 15	%	Full load, 230 Vac, 50 Hz,
	Power factor λ	0,95		Full load, 230 Vac, 50 Hz,
	Efficiency in full load	83	%	Typical, Full load, 230Vac, 50Hz,
	Device power loss	4.1	W	Full load, 230 Vac, 50 Hz
	Protection class	II		
	Suitable for fixtures with prot. Class	I / II		
	Inrush current	20	A	Full Load, 240 Vac, Cold Start Duration = 100uS, 50%Ipk—50%Ipk
	Max. ECG no. on circuit breaker 10 A (B)	48		
	Max. ECG no. on circuit breaker 16 A (B)	77		
	Max. ECG no. on circuit breaker 25 A (B)	120		
Max. ECG no. on circuit breaker 10 A (C)	88			
Max. ECG no. on circuit breaker 16 A (C)	115			
Output	Nominal output voltage	24,2	V	
	Voltage accuracy	+/- 5	%	
	Voltage ripple	< 10	%	Vpk-pk at 100 Hz; Full load
	Nominal output power	2 - 20	W	
	Maximum output power	20	W	At steady state
	Capacitive load	1	uF/A	Linear modules allowed
	Galvanic isolation	SELV		
	U-OUT (working voltage)	30	V	
Dimming	Dimming interface	1-10	V	Built-in internal 100uA current source
	Dimming range	1 – 100	%	
	Dimming method	PWM		
	PWM frequency	500	Hz	
	Galvanic Isolation	Basic / Supplementary		Basic Dim to Primary / Supplementary Dim to Secondary
Environmental	Ambient temperature range	-30...+55	°C	
	Max. temperature at tc test point	+85	°C	Measured on tc point indicated of the prod label, ta not exceeded
	Storage temperature range	-40...+85	°C	
	Permitted rel. humidity during operation	5 – 85	%	Not condensing
	Surge capability (L/N)	4	kV	acc to. EN 61547
	Environmental rating	Outdoor		
	IP protection class	IP 66		
	Mains switching cycles	> 100'000	cycles	At ta = 25°C
	Expected ECG lifetime	50'000	h	At ta = 55°C at 10% failure rate
	No-load proof	Yes		
	Intended for no-load operation	No		
	Overheating protection	Yes		Auto recovery

	Overload protection	Yes		Recovery with mains switch off-on
	Short-circuit protection	Yes		Auto recovery
	Type of connection	Cables		
Dimension	Height	25	mm	
	Length	178	mm	
	Width	43	mm	
	Weight	315	g	
	Casing material	Plastic		
	Mounting hole spacing, length	169	mm	
Input	Colour L and N	Blue / Brown		
	Cable cross selection	1.0	mm ²	H05RN-F/2x1.0 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	
Dimming	Colour dim+ and dim-	Violet / Grey		
	Cable cross selection	0,75	mm ²	H05RN-F/2x0.75 mm ²
	Wire preparation length	50 / 65	mm	
	Wire peeling length	10	mm	
	Lead length	320	mm	

- **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;
 - Two 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.
- **Ecodesign regulation information:**
Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled
- 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 20/220-240/24 DIM P	4052899545809	4052899545816	20

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