

# OT 100/220-240/24 DIM P

Dimmable range 1% - 100%

## Benefits

Dimmable via 1-10V control  
 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	240 mm
L1	227 mm
B	50 mm
H	34 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 100 W
- High efficiency up to 83 %
- 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
- $t_c$  max = 80 °C
- 50'000 h lifetime at  $t_c$  max.
- 5 years guarantee\*
- High IP protection (IP67)

\*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 $\lambda$	0,95		Typical, Full load, 230 Vac, 50 Hz / 60 Hz,
	Efficiency in full load	90	%	Typical, Full load, 230Vac, 50Hz,
	Device power loss	11,8	W	
	Protection class	I		
	Suitable for fixtures with prot. Class	I / II		
	Inrush current	60	A	At Full Load ,240 VAC, 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			
Ou	Nominal output voltage	24,2	V	
	Voltage accuracy	+/- 2	%	
	Voltage ripple	< 1,5	%	Vpk-pk at 100 Hz; Full load
	Nominal output power	55-100	W	
	Maximum output power	100	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°C...+55°C	°C	
	Max. temperature at $t_c$ test point	+80	°C	Measured on $t_c$ point indicated of the prod label, $t_a$ not exceeded
	Storage temperature range	-40°C...+85°C	°C	
	Permitted rel. humidity during operation	5 – 85	%	Not condensing
	Surge capability (L/N)	4 (L/N) / 6 (L- N/PE)	kV	Acc to. EN 61547
	Environmental rating	Outdoor		
	IP protection class	IP 67		
	Mains switching cycles	> 100'000	cycles	At $T_a=25^\circ\text{C}$
	Expected ECG lifetime	50'000	h	$t_c = 85^\circ\text{C} - 0,2\% / 1'000 \text{ h}$ failure rate
	No-load proof	Yes		
	Intended for no-load operation	No		
	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 <sup>2</sup>	

Dimension	Height	34	mm	
	Length	240	mm	Include mounting hanger
	Width	50	mm	
	Weight	765	g	
	Casing material	Metal		
	Wire prep. length, input side	5	mm	
	Wire prep. length, output side	5	mm	
	Mounting hole spacing, length	227	mm	
Input	Color L and N	Blue / Brown		
	Cable cross selection	1,0	mm <sup>2</sup>	H05RN-F/3x1.0 mm <sup>2</sup>
	Wire preparation length	90	mm	
	Wire peeling length	10	mm	
	Lead length	300	mm	
Output	Color + and -	Red / Black		
	Cable cross selection	1,0	mm <sup>2</sup>	H05RN-F/2x1.0 mm <sup>2</sup>
	Wire preparation length	90	mm	
	Wire peeling length	15	mm	
	Lead length	300	mm	
Dimming	Color dim+ and dim-	Violet / Grey		
	Cable cross selection	0,75	mm <sup>2</sup>	H05RN-F/2x0.75 mm <sup>2</sup>
	Wire preparation length	50 / 65	mm	
	Wire peeling length	10	mm	
	Lead length	320	mm	



**OPTOTRONIC® LED Power Supply****OT 100/220-240/24 DIM P**

recyclable. Dispose of the packaging in an environmentally friendly manner and make it available for the recyclable material collection-service.

- **Ecodesign regulation information:** Intended for use with LED modules. The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable. 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 100/220-240/24 DIM P	6977770438408	6977770438415	20

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