

OT 250/220-240/24 DIM P

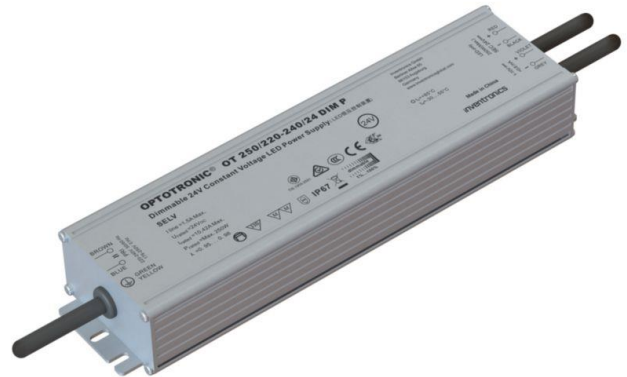
Dimmable range 1% - 100%

Benefits

Dimmable via 1-10V control
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	265 mm
L1	250 mm
B	68 mm
H	39,5 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 250 W
- High efficiency up to 92 %
- 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
- $t_c \text{ max} = 85 \text{ °C}$
- 50'000 h lifetime at $t_c \text{ max}$
- 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	1,18	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,
	Efficiency in full load	92	%	Typical, Full load, 230Vac, 50Hz,
	Device power loss	21,7	W	Full load, 230 Vac, 50 Hz
	Protection class	I		
	Suitable for fixtures with prot. Class	I / II		
	Inrush current	75	A	Full Load ,240Vac,Cold Start Duration=900uS 50%Ipk—50%Ipk
	Max. ECG no. on circuit breaker 10 A (B)	5		
	Max. ECG no. on circuit breaker 16 A (B)	8		
	Max. ECG no. on circuit breaker 25 A (B)	13		
	Max. ECG no. on circuit breaker 10 A (C)	8		
Max. ECG no. on circuit breaker 16 A (C)	13			
Output	Nominal output voltage	24,2	V	
	Voltage accuracy	+/- 2	%	
	Voltage ripple	< 1.5	%	Vpk-pk at 100 Hz; Full load
	Nominal output power	125-250	W	
	Maximum output power	250	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 (L/N) / 6 (L-N/PE)	kV	L/N acc to. EN 61547
	Environmental rating	Outdoor		
	IP protection class	IP 67		
	Mains switching cycles	> 100,000	cycles	Ta=25°C
	Expected ECG lifetime	50'000	h	tc = 85°C - 0,2% / 1'000 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	Terminal		Min 0,75 mm ²	

Dimension	Height	39,5	mm	
	Length	265	mm	
	Width	68	mm	
	Weight	1340	g	
	Casing material	Metal		
	Wire prep. length, input side	5	mm	
	Wire prep. length, output side	5	mm	
	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	
Output	Colour + and -	Red / Black		
	Cable cross selection	1,5	mm ²	H07RN-F/2x1.5 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	65 / 50	mm	
	Wire peeling length	10	mm	
	Lead length	320	mm	

OPTOTRONIC® LED Power Supply**OT 250/220-240/24 DIM P**

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 recycle.
- 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 250/220-240/24 DIM P	6977770438446	6977770438453	20

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