

High current LED drivers



Technical data

Electrical data

Product description	Nominal voltage	Input voltage AC	Nominal current	Mains frequency	Power factor λ	Total harmonic distortion
OT 50/220-240/1A4 P6	220...240 V	198...264 V	0.28 A ¹⁾	50/60 Hz	> 0.95	< 10 % ²⁾
OT 60/220-240/1A4 P6	220...240 V	198...264 V	0.34 A ¹⁾	50/60 Hz	> 0.95	< 10 % ²⁾
Product description	Device power loss	Inrush current	Max. ECG no. on circuit breaker 10 A (B)	Max. ECG no. on circuit breaker 16 A (B)	Max. ECG no. on circuit breaker 25 A (B)	
OT 50/220-240/1A4 P6	6.8 W ¹⁾	35 A ³⁾	4	7	11	
OT 60/220-240/1A4 P6	8.0 W ¹⁾	35 A ³⁾	4	7	11	
Product description	Surge capability (L/N-Ground)		Surge capability (L-N)	Nominal output power	Maximum output power	
OT 50/220-240/1A4 P6	6 kV		4 kV	35...50 W	50 W	
OT 60/220-240/1A4 P6	6 kV		4 kV	42...60 W	60 W	
Product description	Efficiency in full-load		Nominal output voltage	U-OUT (working voltage)	Nominal output current	Output current tolerance
OT 50/220-240/1A4 P6	87 % ⁴⁾		36...48 V	60 V	1.05...1.4 A	±5 %
OT 60/220-240/1A4 P6	88 % ⁴⁾		36...48 V	60 V	1.2...1.4 A	±5 %
Product description	Minimum output current		Galvanic isolation			
OT 50/220-240/1A4 P6	1.05 A		Double			
OT 60/220-240/1A4 P6	1.2 A		Double			

¹⁾ Vin 230v 50Hz

²⁾ At full load

³⁾ Max, th = 350µs

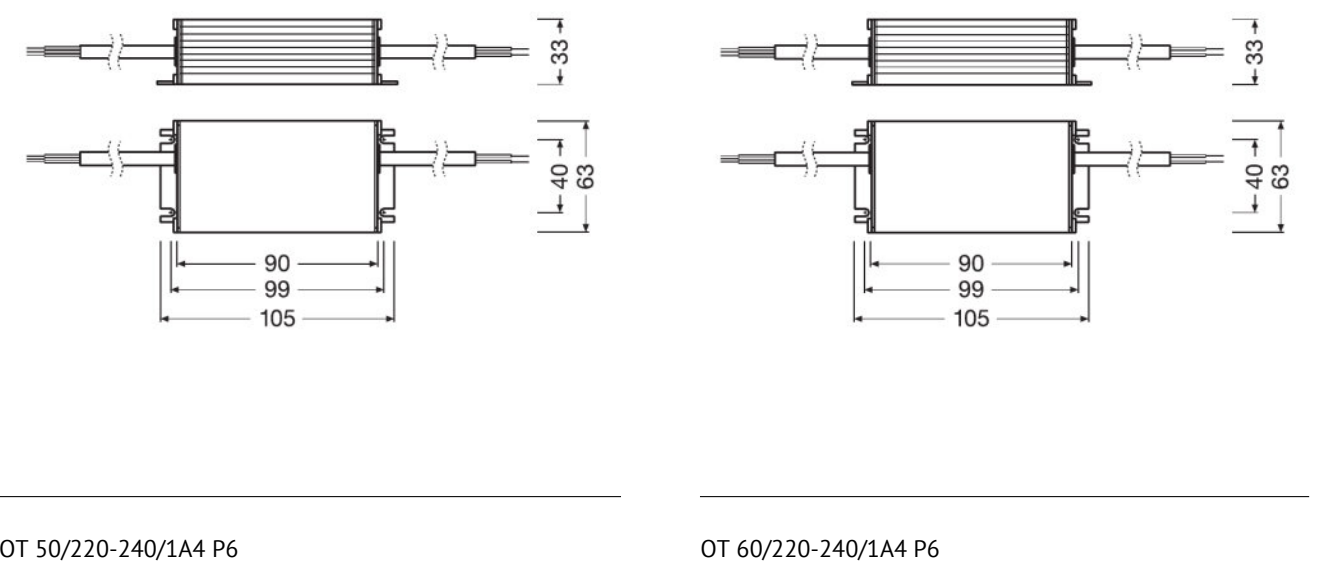
⁴⁾ at 230 V, 50 Hz

Dimensions & weight

Product description	Length	Width	Height	Mounting hole spacing, length	Product weight	Cable cross-section, input side
OT 50/220-240/1A4 P6	105.0 mm	63.0 mm	33.0 mm	99.0 mm	365.00 g	1.0 mm ²
OT 60/220-240/1A4 P6	105.0 mm	63.0 mm	33.0 mm	99.0 mm	365.00 g	1.0 mm ²
Product description	Cable cross-section, output side	Wire preparation length, input side				
OT 50/220-240/1A4 P6	1.0 mm ²	10 mm				
OT 60/220-240/1A4 P6	1.0 mm ²	10 mm				

Product family datasheet

Product line drawing



Temperatures & operating conditions

Product description	Ambient temperature range	Temperature range at storage	Maximum temperature at tc test point	Max.housing temperature in case of fault
OT 50/220-240/1A4 P6	-40...+55 °C	-40...+85 °C	90 °C	110 °C
OT 60/220-240/1A4 P6	-40...+55 °C	-40...+85 °C	90 °C	110 °C

Lifespan

Product description	ECG lifetime
OT 50/220-240/1A4 P6	50000 h ¹⁾
OT 60/220-240/1A4 P6	50000 h ¹⁾

¹⁾ At maximum T_c = 80°C / 10% failure rate

Capabilities

Product description	Dimmable	Suitable for fixtures with prot. class	Intended for no-load operation	Number of channels
OT 50/220-240/1A4 P6	No	I	No	1
OT 60/220-240/1A4 P6	No	I	No	1

Certificates & standards

Product description	Type of protection	Standards	Approval marks – approval
OT 50/220-240/1A4 P6	IP66	Acc. to EN 55015/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61347-1/Acc. to EN 61347-2-13/Acc. to EN 61547/Acc. to EN 62384/Acc. to EN 60598-1 (ED.8)	CCC / CE / ENEC 25 / SELV
OT 60/220-240/1A4 P6	IP66	Acc. to EN 55015/Acc. to EN 60598-1 (ED.8)/Acc. to EN 61000-3-2/Acc. to EN 61000-3-3/Acc. to EN 61347-2-13/Acc. to EN 61547/Acc. to EN 62384/Acc. to EN 61347-1	CCC / CE / ENEC 25 / SELV

Logistical data

Product description	Commodity code
OT 50/220-240/1A4 P6	850440829000
OT 60/220-240/1A4 P6	850440829000

Environmental information
Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)

Product description	Date of Declaration	Primary Article Identifier	Candidate List Substance 1
OT 50/220-240/1A4 P6	25-04-2022	4062172125628	Lead
OT 60/220-240/1A4 P6	25-04-2022	4062172125642	Lead
Product description	CAS No. of substance 1	Safe Use Instruction	Declaration No. in SCIP database
OT 50/220-240/1A4 P6	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	efbd7bba-8b17-41ef-989f-6c086037f40e
OT 60/220-240/1A4 P6	7439-92-1	The identification of the Candidate List substance is sufficient to allow safe use of the article.	46aa2c86-bc8f-4ebf-8ca0-0a034430295c

Application advice

For more detailed application information and graphics please see product datasheet.

Product family datasheet

Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction OPTOTRONIC
	Certificates CCC certificate of OT P6 family

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172125628	OT 50/220-240/1A4 P6	Shipping carton box 20	461 mm x 356 mm x 117 mm	19.20 dm ³	7700.00 g
4062172125642	OT 60/220-240/1A4 P6	Shipping carton box 20	461 mm x 356 mm x 117 mm	19.20 dm ³	7700.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.