

CC Power supplies with LEDset



Areas of application

- Suitable for indoor SELV equivalent installations
- Suitable for use in luminaires with flexible current setting (DIP switch, LEDset)
- Installation and independent mounting via Cable Clamp Kit possible

Product benefits

- Versatile scope of application due to output power range of up to 45 W
- Very high efficiency and reliability

Product family datasheet

Technical data

Electrical data

Product description	Nominal voltage	Mains frequency	Input voltage AC	Power factor λ	ECG efficiency	Device power loss
OT 45/220...240/700 LTCS	220...240 V	50...60 Hz	195...264 V ¹⁾	0.95/0.85 ²⁾	89 % ³⁾	6.0 W ⁴⁾
Product description	Protective conductor current	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 45/220...240/700 LTCS	<2.0 mA	8 A ⁵⁾	40	60	-	
Product description	Surge capability (L/N-Ground)		Surge capability (L-N)	Nominal output voltage	Nominal output current	Output current tolerance
OT 45/220...240/700 LTCS	2 kV ⁶⁾		1.6 kV	38...120 V ⁷⁾	100...700 mA ⁸⁾	±5 %
Product description	Nominal output power	Galvanic isolation		Galvanic isolation primary/secondary		
OT 45/220...240/700 LTCS	45 W ⁹⁾	SELV equivalent		3.75 kV ¹⁰⁾		

¹⁾ Permitted voltage range

²⁾ Minimum/Full load at 230 V/Half load at 230 V

³⁾ At full load and 230 V

⁴⁾ Maximum

⁵⁾ $t_{\text{width}} = 55 \mu\text{s}$ (measured at 50 % I_{peak})

⁶⁾ Functional Earth

⁷⁾ Maximum 120 V

⁸⁾ ±5% (350...700 mA)

⁹⁾ Partial load 13...45 W

¹⁰⁾ SELV-equivalent

Dimensions & weight

Product description	Length	Width	Height	Mounting hole spacing, length	Mounting hole spacing, width	Product weight
OT 45/220...240/700 LTCS	123.0 mm	79.0 mm	33.0 mm	111.0 mm	67.0 mm	240.00 g
Product description	Cable cross-section, input side	Cable cross-section, output side	Wire preparation length, input side	Wire preparation length, output side		
OT 45/220...240/700 LTCS	0.2...1.5 mm ² ¹⁾	0.2...1.5 mm ² ¹⁾	8.5...9.5 mm	8.5...9.5 mm		

¹⁾ Solid or flexible leads

Product line drawing

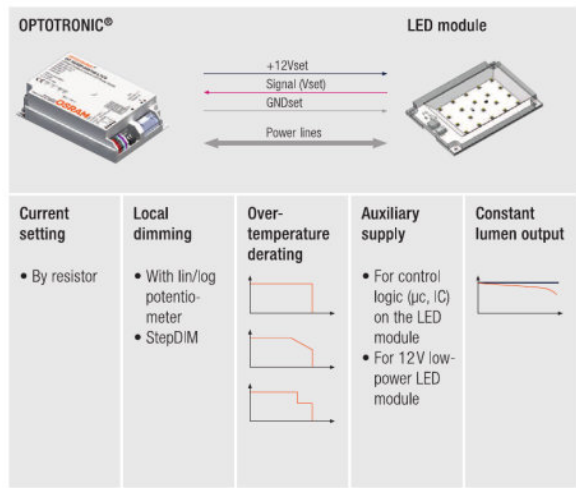


Figure 1: LEDset application features

OT 45/220...240/700 LTCS

Colors & materials

Product description	Casing material
OT 45/220...240/700 LTCS	Plastic

Temperatures & operating conditions

Product description	Ambient temperature range	Maximum temperature at tc test point	Max.housing temperature in case of fault	Permitted rel. humidity during operation
OT 45/220...240/700 LTCS	-25...+50 °C	90 °C ¹⁾	110 °C	5...85 % ²⁾

¹⁾ Maximum at the Tc-point

²⁾ Maximum 56 days/year at 85 %

Lifespan

Product description	ECG lifetime
OT 45/220...240/700 LTCS	50000 h ¹⁾

¹⁾ At T_{case} = 80 °C at T_c point / 10% failure rate

Product family datasheet

Additional product data

Product description	Encapsulated
OT 45/220...240/700 LTCS	No

Capabilities

Product description	Dimmable	Overheating protection	Overload protection
OT 45/220...240/700 LTCS	No ¹⁾	Automatic reversible	Automatic reversible

Product description	Short-circuit protection	No-load proof	Max. cable length to lamp/LED module	Suitable for fixtures with prot. class
OT 45/220...240/700 LTCS	Automatic reversible	Yes	2.0 m	I / II

¹⁾ LEDset

Certificates & standards

Product description	Approval marks – approval
OT 45/220...240/700 LTCS	CE / ENEC 10 / VDE

Product description	Standards	Protection class
OT 45/220...240/700 LTCS	Acc. to IEC 61347-1/Acc. to IEC 61347-2-13/Acc. to IEC 62384/Acc. to IEC 61000-3-2/Acc. to EN 55015:2006 + A1:2007 + A2:2009/Acc. to IEC 61547:1995 + A1:2000	II

Product description	Type of protection
OT 45/220...240/700 LTCS	IP20

Logistical data

Product description	Temperature range at storage
OT 45/220...240/700 LTCS	-40...85 °C

Application advice

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

Sales and Technical Support

Sales and Technical Support www.osram.com

Product family datasheet

Country specific information

Product description	Product code	METEL-Code	SEG-No.	STK number	UK Org
OT 45/220...240/700 LTCS	4008321664433	-	-	4030169	-

Download Data

File	
	Product Datasheet 340448_OPTOTRONIC OT 45220-240700 LTCS
	Brochures 502731_Technical Application Guide LEDset Gen2 (GB)
	Certificates 335196_CB test certificate – OT 35200-240700 LTCS – OT 45200-240700 LTCS
	Declarations of conformity 334910_Declaration of conformity – OT 35200-240700 LTCS – OT 45200-240700 LTCS

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321664433	OT 45/220...240/700 LTCS	Shipping carton box 20	418 mm x 82 mm x 255 mm	8.74 dm ³	5038.90 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.