

## OT 45/220...240/700 LTCS

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

## Technical data

### Electrical data

<b>Output power</b>	45 W <sup>1)</sup>
<b>Input voltage</b>	195...264 V <sup>2)</sup>
<b>Mains frequency</b>	50...60 Hz
<b>Output voltage</b>	38...120 V <sup>3)</sup>
<b>Output current</b>	100...700 mA <sup>4)</sup>
<b>Power loss in stand-by mode</b>	<1.5 W <sup>5)</sup>
<b>Nominal voltage</b>	220...240 V
<b>Nominal current</b>	0.23 A <sup>6)</sup>
<b>Device power loss</b>	6.0 W <sup>7)</sup>
<b>Power factor <math>\lambda</math></b>	0.95/0.85 <sup>8)</sup>
<b>ECG efficiency</b>	89 % <sup>9)</sup>
<b>Inrush current</b>	8 A <sup>10)</sup>
<b>Max. no. of ECGs on circuit breaker 10 A</b>	40
<b>Max. no. of ECGs on circuit breaker 16 A</b>	60
<b>Galvanic isolation primary/secondary</b>	3.75 kV <sup>11)</sup>
<b>Surge capability (L/N-Ground)</b>	2 kV <sup>12)</sup>
<b>Surge capability (L-N)</b>	1.6 kV

<sup>1)</sup> Partial load 13...45 W / Not dimmed

<sup>2)</sup> Permitted voltage range

<sup>3)</sup> Maximum 120 V

<sup>4)</sup>  $\pm 5\%$  (350-700 mA)

<sup>5)</sup> LEDset turned off

<sup>6)</sup> At 230 V

<sup>7)</sup> Maximum

<sup>8)</sup> Minimum/Full load at 230 V/Half load at 230 V

<sup>9)</sup> At full load and 230 V

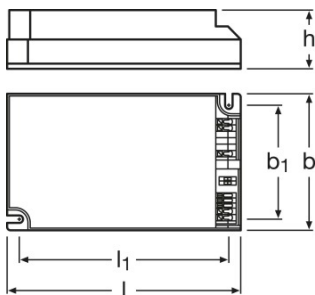
<sup>10)</sup>  $t_{\text{width}} = 55 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

<sup>11)</sup> SELV-equivalent

<sup>12)</sup> Functional Earth

### Dimensions & weight

## Product datasheet



### Product line drawing

<b>Length</b>	123.0 mm
<b>Width</b>	79.0 mm
<b>Mounting hole spacing, length</b>	111.0 mm
<b>Mounting hole spacing, width</b>	67.0 mm
<b>Height</b>	33.0 mm
<b>Product weight</b>	240.00 g
<b>Cable cross-section, input side</b>	0.2...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Cable cross-section, output side</b>	0.2...1.5 mm <sup>2</sup> <sup>2)</sup>
<b>Wire preparation length, input side</b>	8.5...9.5 mm

<sup>1)</sup> Solid or flexible leads

<sup>2)</sup> Solid or flexible leads / LEDset only 0.2...0.5 mm<sup>2</sup>

### Colors & materials

<b>Casing material</b>	Plastic
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### Temperatures

<b>Ambient temperature range</b>	-25...+50 °C
<b>Temperature range at storage</b>	-40...85 °C
<b>Maximum temperature at tc test point</b>	90 °C <sup>1)</sup>
<b>Max.housing temperature in case of fault</b>	110 °C

<sup>1)</sup> Maximum at the Tc-point

### Lifespan

<b>ECG lifetime</b>	50000 h <sup>1)</sup>
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<sup>1)</sup> At tcase = 80°C at tc point / 10 % failure rate

### Capabilities

## Product datasheet

<b>Dimmable</b>	Yes <sup>1)</sup>
<b>Suitable for fixtures with prot. class</b>	I / II
<b>NTC input</b>	No
<b>Overheating protection</b>	Automatic reversible
<b>Overload protection</b>	Automatic reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>No-load proof</b>	Yes
<b>Maximum wiring length ECG/lamp</b>	2.0 m

<sup>1)</sup> LEDset

### Certificates & standards

<b>Type of protection</b>	IP20
<b>Standards</b>	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
<b>Approval marks – approval</b>	CE / ENEC 10 / VDE

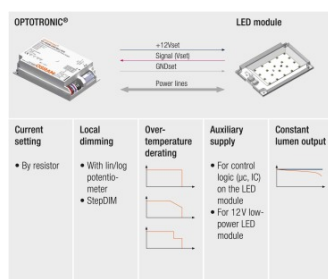






Figure 1: LEDset application features

### Others graphics

## Download Data

File	
	Product Datasheet OPTOTRONIC OT 45220-240700 LTCS
	Brochures Technical Application Guide LEDset Gen2 (GB)
	Certificates CB test certificate OT 35200-240700 LTCS OT 45200-240700 LTCS
	Certificates OT VDE ENEC marks approval (G)
	Declarations of conformity

## Product datasheet



Declaration of conformity OT 35200-240700 LTCS OT 45200-240700 LTCS



Installation guide  
OPTOTRONIC LEDset Application Guide

## Logistical Data

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