

# OPTOTRONIC®

## OT 60/220-240/12 P

Constant Voltage LED Power Supply for 12V  
LED - Modules



# Technical Information

Edition: Aug 2012  
subject to change

### Technical data

Reference:	<b>OT 60/220-240/12 P</b>
For LED modules:	12V LED Modules with respect to the output parameters: BackLED and BoxLED
Nominal Voltage:	220 – 240 V <sub>AC</sub>
Line current, nominal:	0,32 A@230 V
Mains frequency:	50/60 Hz
Protection Class:	II
Output voltage: (Remark)	12,5V DC +/- 0,5V
Output Power:	60 W
Rated Power factor:	> 0,98 (full load) @ 230V > 0,93 (half load) @ 230V
Power loss:	9 W max.
ECG efficiency: (Remark)	86 % @ 230V full load at 230 V
Power loss in no load condition:	< 1 W
Input Voltage: (Remark)	198 - 264 V <sub>AC</sub> Permitted Voltage Range
DC voltage operation:	No
Inrush current: (Remark)	≤ 35 A $t_{width} = 170\mu s$ (measured at 50% $I_{peak}$ )
Max. no. of ECG @ circuit breakers 10 A (B type):	11
Max. no. of ECG @ circuit breakers 16 A (B type):	17
Ambient temperature range, $t_a$ :	-25 °C to +55 °C
Temperature range at storage	-40 °C to +85 °C
Max. case temperature at $t_c$ point:	+80 °C
ECG Life time: (Remark)	50.000h at $t_{case} = +70$ °C at $t_c$ point and 10% failure rate
Maximum casing temperature in case of fault:	100 °C
Dimmable:	No
No-load proof:	Yes
Short circuit protection:	Automatic, reversible
Overload protection:	Automatic, reversible
Overtemperature protection:	Automatic, reversible

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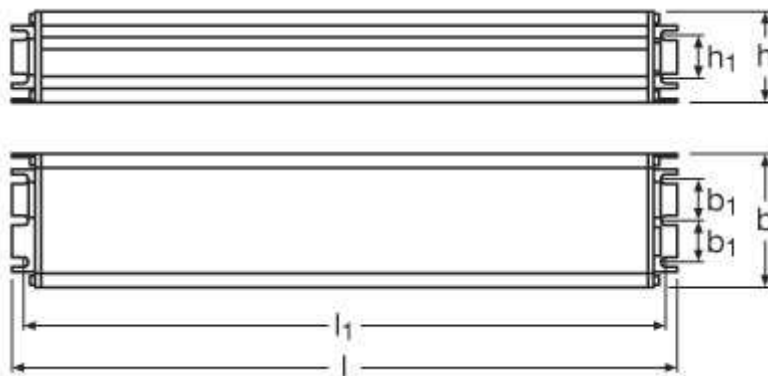
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Cable cross section input side:	1,0 mm <sup>2</sup> / 17 AWG
Cable cross section output side:	1,0 mm <sup>2</sup> / 17 AWG
Cable types, Input side : (Remark)	Flexible ~500 mm colour coding L: brown N: blue
Cable types, Output side: (Remark)	Flexible ~500 mm colour coding LEDModule (+): red LEDModule (-): black
Wire preparation length, input side:	10 mm
Wire preparation length, output side	10 mm
Max. cable length-system:	10 m
Geometry (l x w x h)	180 x 50 x 34 mm <sup>3</sup>
Mounting hole spacing, length:	171 mm
Mounting hole spacing, width (Remark)	14 mm Side mounting 12 mm
Weight:	550 g
Casing:	Metal, aluminium
IP Code:	IP67
Suitable for fixtures with protection class:	II
ECG outdoor protection against humidity:	PCB fully encapsulated + dust proof metal housing
Safety:	IEC 61347-1, IEC 61347-2-13
Performance:	IEC 62384
Radio interference:	CISPR 15
Harmonic content:	IEC 61000-3-2
Immunity:	IEC 61547
Vibration tested:	Yes
Surge capability	L-N: 3kV
Galvanic insulation primary/secondary: (Remark)	3,75 kV <sub>rms</sub> SELV - equivalent

Approvals:



**Geometry**

$l = 180 \text{ mm}$ ,  $l_1 = 171 \text{ mm}$ ,  $w = 50 \text{ mm}$ ,  $w_1 = 14 \text{ mm}$ ,  $h = 34 \text{ mm}$ ,  $h_1 = 12 \text{ mm}$

**Ordering information**

	<b>EAN 10</b>	<b>EAN 40</b>
<b>OT 60/220-240/24 P</b>	<b>4008321790811</b>	<b>4008321790828</b>

**Installation notes**

1. The luminaire manufacturer is responsible for providing the required clearances and creepage distances and also for the protection against electrical shock, especially for the line and load wires.
2. Ballast losses and LED Module heat radiation can lead to heat accumulation in a complete closed case. Therefore it is necessary to ensure, that the temperature at the measuring point  $t_c$  does not exceed the maximum value.

**Instruction sheet**

Please consult the instruction sheet for further important information on e.g. wire stripping and wiring limitations in system installations. The instruction sheet is enclosed with the device or available upon request.