

# OPTOTRONIC®

## OTe 120/220-240/12 P

Constant Voltage LED Power Supply for 12V  
LED - Modules

## Technical Information

Edition: April 2011  
subject to change

### Technical data

Reference:	<b>OTe 120/220-240/12 P</b>
For LED modules:	12V LED Modules with respect to the output conditions: BackLED BoxLED
Nominal Voltage:	220 – 240 V <sub>AC</sub>
Line current, nominal:	0,61 A @ 230V
Mains frequency:	50/60 Hz
Protection Class:	I
Output voltage: (Remark)	12,5V DC <i>Tolerance: ± 0,5V</i>
Output Power:	120 W
Rated Power factor:	> 0,9 (full load) @ 230V
Power loss:	< 20W max.
ECG efficiency: (Remark)	> 85 % <i>full load at 230V</i>
Power Loss in no load condition:	< 2,5 W
Input Voltage: (Remark)	198 – 264 VAC <i>Permitted voltage range</i>
DC Voltage:	No
Inrush current: (Remark)	≤ 22A <i>t<sub>width</sub> @ 35μs</i>
Ambient temperature range, t <sub>a</sub> :	-25 °C to +55 °C
Max. case temperature at t <sub>c</sub> point:	90°C
ECG Lifetime: (Remark)	50.000h <i>at t<sub>a</sub> +45 °C and 10% failure rate</i>
Maximum casing temperature in case of fault	120°C


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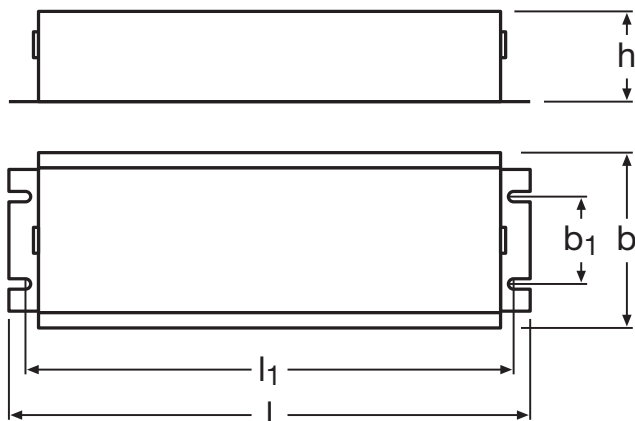
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Dimmable:	No
No-load proof:	Yes
Short circuit protection:	Automatic, reversible
Overload protection:	Automatic, reversible
Overtemperature protection:	Automatic, manual reset
Cable cross section input side / output side:	Input: ~ 0,83 mm <sup>2</sup> / Output: ~0,83 mm <sup>2</sup> Input: 18 AWG / Output: 18 AWG
(Remark)	<i>Flexible</i>
Cable length Input side / output side:	~ 30cm / ~ 30cm
Max. cable length – system:	10 m
Geometry (l x b x h):	208 x 72 x 38 mm <sup>3</sup>
Mounting hole spacing/length:	195 mm
Mounting hole spacing/width:	35 mm
Weight:	1 kg
IP Code:	IP65
Suitable for fixtures with protection class:	Class I
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
Voltage fluctuations:	IEC 61000-3-3
Immunity:	IEC 61547
Surge capability:	L-N: 2kV; L/N – Ground: 4kV;
Galvanic isolation primary/secondary :	3,75 kVrms
(Remark)	<i>SELV-equivalent</i>
Approvals:	

**Geometry**

$l = 208\text{mm}$ ,  $l_1 = 195$ ,  $b = 72\text{mm}$ ,  $b_1 = 35\text{mm}$ ,  $h = 38\text{mm}$

**Ordering information**

	<b>EAN 10</b>	<b>EAN 40</b>
<b>OTe 120/220-240/12 P</b>	<b>4008321974464</b>	<b>4008321655370</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. Ground connection of the OTe 120/220-240/12 P is mandatory for safety and EMC reasons. The ground connection could be done either with the input cable or via the housing case. If ground connection is done via the housing case, proper countersunk screws should be used.
3. 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.