

# OPTOTRONIC®

## OT 30/220-240/12 P

Constant Voltage LED Power Supply for 12V  
LED - Modules



# Technical Information

Edition: Sept 2021  
subject to change

### Technical data

Reference:	<b>OT 30/220-240/12 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:	0,19 A@230 V
Mains frequency:	50/60 Hz
Protection Class:	II
Output voltage: (Remark)	12,5V DC +/- 0,5V
Maximum output power:	30 W (at steady state)
Rated Power factor:	> 0,95 (full load) @ 230V > 0,90 (half load) @ 230V
Power loss:	5 W max.
Efficiency in full load:	83 % @ 230V full load at 230 V, 50 Hz
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)	≤ 31 A $t_{width} = 160\mu s$ (measured at 50% $I_{peak}$ )
Max. no. of ECG @ circuit breakers 10 A (B type):	13
Max. no. of ECG @ circuit breakers 16 A (B type):	21
Ambient temperature range, $t_a$ :	-25 °C to +55 °C
Temperature range at storage	-30 °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
Intended for no-load operation:	No (secondary switching not allowed)
Short circuit protection:	Automatic, reversible
Overload protection:	Automatic, reversible
Overtemperature protection:	Automatic, reversible

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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 ~300 mm colour coding L: brown N: blue
Cable types, Output side: (Remark)	Flexible ~300 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)	220 x 40 x 22 mm <sup>3</sup>
Mounting hole spacing, length:	213 mm
Weight:	330 g
Casing:	Plastic, White
IP Code:	IP66
Suitable for fixtures with protection class:	II
ECG outdoor protection against humidity:	PCB fully encapsulated + dust proof plastic 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: 4kV
Galvanic insulation primary/secondary: (Remark)	3,75 kV <sub>rms</sub>  SELV - equivalent

Approvals:



### Geometry



### Ordering information

	EAN 10	EAN 40
OT 30/220-240/12 P	4052899905542	4052899905573

### 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.

### Remarks

**Ecodesign regulation information:** Intended for use with LED modules. The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

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Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.