OPTOTRONIC®

OT 120/220-240/12 P

Constant Voltage LED Power Supply for 12V LED – Modules

SMART POWER SUPPLY

Technical Information

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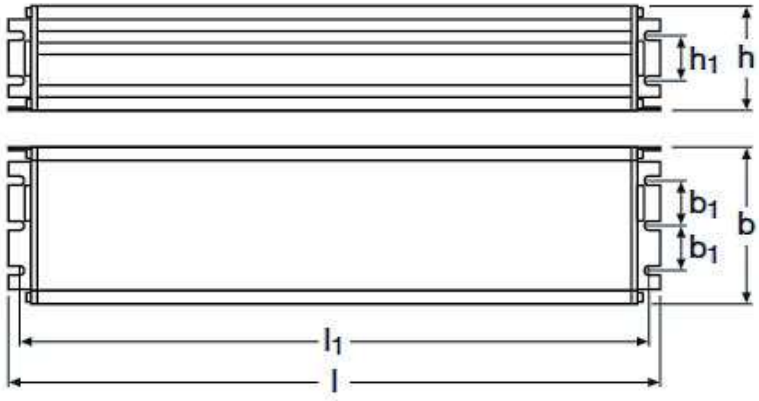
subject to change

Technical data

Reference:	**OT 120/220-240/12 P**
For LED modules:	12V LED Modules with respect to the output parameters: BackLED and BoxLED
Nominal Voltage:	220 – 240 V_{AC}
Line current, nominal:	0,65 A@230V
Mains frequency:	50/60 Hz
Protection Class:	I
Output voltage: *(Remark)*	12,5V DC Tolerance: - 0,5V / + 0,5V
Output Power:	120 W
Rated Power factor:	> 0,98 (full load) @ 230V > 0,95 (half load) @ 230V
Power losses:	17 W max.
ECG efficiency: *(Remark)*	88% @ 230V *full load at 230 V*
Power loss in no load condition:	~ 1 W
Input Voltage: *(Remark)*	198 - 264 V_{AC} *Permitted Voltage Range*
DC voltage operation:	No
Inrush current: *(Remark)*	≤ 40 A *t_{width}= 300µs(measured at 50% I_{peak})*
Max. no. of ECG @ circuit breakers 10 A (B type):	6
Max. no. of ECG @ circuit breakers 16 A (B type):	10
Ambient temperature range, t_a:	-25 ℃ to +55 ℃
Temperature range at storage	-40 ℃ to +85℃
Max. case temperature at t_c point:	80℃
ECG Life time: *(Remark)*	50.000h *at t_{case} =70 ℃ at t_c point and 10% failure rate*
Maximum casing temperature in case of fault:	100℃
Dimmable:	No
No-load proof: Short circuit protection: Overload protection: Overtemperature protection:	Yes Automatic, reversible Automatic, reversible Automatic, reversible

Cable cross section input side:	1,0 mm² / 17 AWG
Cable cross section output side:	1,0 mm² / 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)	250 x 60 x 39 mm³
Mounting hole spacing, length:	241 mm
Mounting hole spacing, width *(Remark)*	15 mm Side mounting 14 mm
Weight:	1100 g
Casing:	Metal, aluminium
IP Code:	IP67
Suitable for fixtures with protection class:	I
ECG outdoor protection against humidity:	PCB fully encapsulated + dust proof metal housing
Safety: Performance: Radio interference: Harmonic content: Immunity:	IEC 61347-1, IEC 61347-2-13 IEC 62384 CISPR 15 IEC 61000-3-2 IEC 61547
Vibration tested:	Yes
Surge:	L-N 3kV, L/N – PE: 6kV;
Galvanic insulation primary/secondary: *(Remark)*	3,75 kV_{rms}, *SELV - equivalent*
Approvals:	CE

Geometry



l = 250 mm, l_1 = 241 mm, w = 60 mm, w_1 = 15 mm, h = 39 mm, h_1 = 14 mm

Ordering information

	EAN 10	EAN 40
OT 120/220-240/12 P	**4008321790835**	**4008321790842**

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 OT 120/220-240/12 P is mandatory for safety and EMC reasons. The ground connection has to be done with the input cable.

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.