

OPTOTRONIC®
OT 120/220-240/24 DIM P
Dimmable Constant Voltage LED Power
Supply for 24V LED - Modules

Technical
Information

Edition: October 2011
subject to change

Technical data

Reference:	OT 120/220-240/24 DIM P
For LED modules:	24V LED Modules with respect to the output parameters:
Line voltage, nominal:	220 – 240 V _{AC}
Line current, nominal:	0,6A@230V
Line frequency:	50/60 Hz
Protection Class:	I
Output voltage:	24V DC
(Remark)	Tolerance: - 0,5V / +1,0V
Maximum load	120 W
Power factor:	> 0,95 full load @ 230V > 0,90 half load @ 230V
Power losses:	< 15 W max.
Interface:	1...10V
ECG efficiency:	89 % @ 230V
(Remark)	full load at 230 V
Power loss in no load condition:	< 1,5 W
(Remark)	< 1,5 W (Stand by power consumption 1...10V)
Input Voltage:	198 - 264 V _{AC}
(Remark)	Permitted Voltage Range
DC voltage operation:	No
Inrush current:	≤ 60 A
(Remark)	t_{width} @ 250μs
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 °C to +55 °C
Max. case temperature at t _c point:	80 °C
ECG Life time:	50.000h
(Remark)	at t _{case} = 70 °C at t _c point and 10% failure rate
Maximum casing temperature in case of fault:	100 °C
Dimmable:	PWM dimming via fully isolated 1....10V Interface
(Remark)	By external resistor or active 1....10V dimmer
Dimming Range:	1....100%
No-load proof:	Yes
Short circuit protection:	Automatic, reversible
Overload protection:	Automatic, reversible
Overheating protection:	Automatic, reversible

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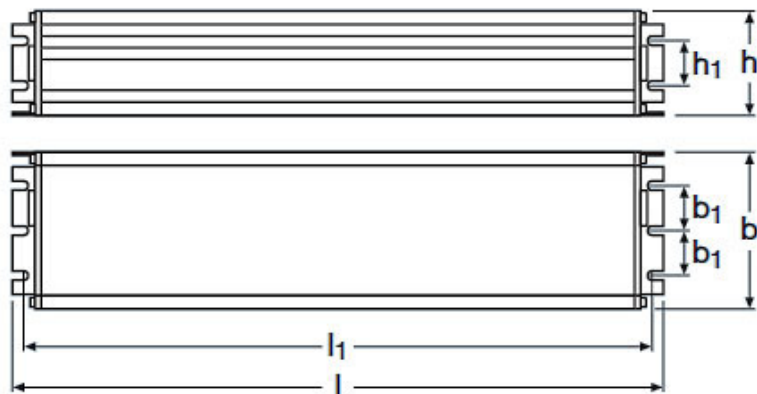
Wire cross section input/output line: (Remark)	Input: 1,0 mm ² / Output: 1,5 mm ² Input: 18 AWG / Output: 18 AWG <i>Flexible</i>
Cable length: Input side / Output side:	~ 300 mm / ~ 300 mm
Input colour coding:	L: brown N: blue PE: yellow/green
Output colour coding:	LEDModule (+): red LEDModule (-): black LEDModule (PWM): white
Control colour coding:	Dimming (+): violet Dimming (-): grey
Wire stripping:	10 mm
Max. output cable length:	10 m
Geometry (l x b x h mm ³)	250 x 60 x 39 mm ³
Side mounting hole spacing/length:	241 mm
Side mounting hole spacing/width:	14 mm
Bottom mounting hole spacing/length:	241 mm
Bottom mounting hole spacing/width:	15 mm
(Remark)	<i>From each side</i>
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:	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
Vibration tested:	Yes
Surge:	L-N: 3kV, L/N – Ground: 6kV;
Galvanic insulation between primary and secondary side: (Remark)	3,75 kV _{rms} <i>SELV - equivalent</i>
Approvals:	CE

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Geometry



$l = 250 \text{ mm}$, $l_1 = 241 \text{ mm}$, $b = 60 \text{ mm}$, $b_1 = 15 \text{ mm}$, $h = 39 \text{ mm}$, $h_1 = 14 \text{ mm}$

Ordering information

	EAN 10	EAN 40
OT 120/220-240/24 DIM P	4008321981691	4008321981752

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 120/220-240/24 DIM 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.