OPTOTRONIC®

OT 80/220-240/24 DIM P

Dimmable Constant Voltage LED Power Supply for 24V LED – Modules

Technical Information

Edition: October 2011 subject to change

Technical data

Reference:	OT 80/220-240/24 DIM P		
For LED modules:	24V LED Modules		
	with respect to the output parameters		
Line voltage, nominal:	220 – 240 V _{AC}		
Line current, nominal:	0,4A@230 V		
Line frequency:	50/60 Hz		
Protection Class:			
Output voltage:	24V DC		
(Remark)	Tolerance: - 0,5V / + 1,0V		
Maximum load	80 W		
Power factor:	> 0,95 full load @ 230V		
	> 0,90 half load @ 230V		
Power losses:	12 W max.		
Interface:	110V		
ECG efficiency:	87 % @ 230V		
(Remark)	full load at 230 V		
Power loss in no load condition:	< 1,5 W		
(Remark)	< 1,5 W (Stand by power consumption 110V)		
Input Voltage:	198 - 264 V _{AC}		
(Remark)	Permitted Voltage Range		
DC voltage operation:	No		
Inrush current:	≤ 35 A		
(Remark)	t _{width} @ 360μs		
Max. no. of ECG @ circuit	7		
breakers 10 A (B type):	1		
Max. no. of ECG @ circuit	10		
breakers 16 A (B type):			
Ambient temperature renge t	0E 9C to . EE 9C		
Ambient temperature range, ta:	-25 °C to +55 °C		
Max. case temperature at t _c point:	80°C		
ECG Life time:	50.000h		
(Remark)	at $t_{case} = 70 \circ C$ at t_c point and 10% failure rate		
Maximum casing temperature in	100℃		
case of fault:			
Dimmable:	DWM dimming via fully isolated 1 10V Interface		
Diminable.	PWM dimming via fully isolated 110V Interface		
Dimming Danger	By external resistor or active 110V		
Dimming Range:	1100%		
No-load proof:	Yes Automatic reversible		
Short circuit protection:	Automatic, reversible		
Overload protection: Overheating protection:	Automatic, reversible Automatic, reversible		
Overheating protection.	Automatic, reversible		



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Wire cross section	Input: 1,0 mm ² / Output: 1,5 mm ²		
input/ouput line:	Input: 18 AWG / Output: 18 AWG		
(Řemark)	Flexible		
Cable length:	~ 300 mm / ~ 300 mm		
Input side / Output side:			
Input colour coding:	L: brown		
	N: blue		
Output colour coding:	LEDModule (+): red		
	LEDModule (-): black		
	LEDModule (PWM): white		
Control colour coding:	Dimming (+): violet		
3	Dimming (-): grey		
Wire stripping:	10 mm		
Max. output cable length:	10 m		
Geometry (I x b x h mm³)	250 x 50 x 34 mm ³		
Side mounting hole spacing/length:	241 mm		
Side mounting hole spacing/width	12 mm		
Bottom mounting hole spacing/length:	241 mm		
Bottom mounting hole spacing/width:	14 mm		
(Remark)	From each side		
Weight:	900 g		
Casing:	Metal, aluminium		
IP Code:	IP67		
Suitable for fixtures with			
protection class:	II		
ECG outdoor protection against	PCB fully encapsulated + dust proof metal		
humidity:	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		
Galvanic insulation between	3,75 kV _{rms} ,		
primary and secondary side:	· ms·		
(Remark)	SELV - equivalent		
Approvals:	CE		



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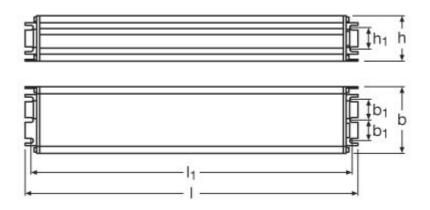
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Geometry



 $I = 250 \text{ mm}, I_1 = 241 \text{ mm}, b = 50 \text{ mm}, b_1 = 14 \text{ mm}, h = 34 \text{ mm}, h_1 = 12 \text{ mm}$

Ordering information

	EAN 10	EAN 40
OT 80/220-240/24 DIM P	4008321981677	4008321981738

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 $t_{\rm c}$ 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.

