

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:	II
Output voltage:	24V DC
(Remark)	<i>Tolerance: - 0,5V / + 1,0V</i>
Maximum load	80 W
Power factor:	> 0,95 full load @ 230V > 0,90 half load @ 230V
Power losses:	12 W max.
Interface:	1...10V
ECG efficiency:	87 % @ 230V
(Remark)	<i>full load at 230 V</i>
Power loss in no load condition:	< 1,5 W
(Remark)	<i>< 1,5 W (Stand by power consumption 1...10V)</i>
Input Voltage:	198 - 264 V _{AC}
(Remark)	<i>Permitted Voltage Range</i>
DC voltage operation:	No
Inrush current:	≤ 35 A
(Remark)	<i>t_{width}@ 360μs</i>
Max. no. of ECG @ circuit breakers 10 A (B type):	7
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)	<i>at t_{case} = 70 °C at t_c point and 10% failure rate</i>
Maximum casing temperature in case of fault:	100 °C
Dimmable:	PWM dimming via fully isolated 1....10V Interface <i>By external resistor or active 1....10V</i>
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: <i>(Remark)</i>	Input: 1,0 mm ² / Output: 1,5 mm ² Input: 18 AWG / Output: 18 AWG Flexible
Cable length: Input side / Output side:	~ 300 mm / ~ 300 mm
Input colour coding:	L: brown N: blue
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 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: <i>(Remark)</i>	14 mm <i>From each side</i>
Weight:	900 g
Casing:	Metal, aluminium
IP Code:	IP67
Suitable for fixtures with protection class:	II
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
Galvanic insulation between primary and secondary side: <i>(Remark)</i>	3,75 kV _{rms} <i>SELV - equivalent</i>

Approvals:



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Geometry



$l = 250 \text{ mm}$, $l_1 = 241 \text{ mm}$, $b = 50 \text{ mm}$, $b_1 = 14 \text{ mm}$, $h = 34 \text{ mm}$, $h_1 = 12 \text{ mm}$

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_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.