

Light is OSRAM

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# OPTOTRONIC®

## OTe 120/220-240/24 E

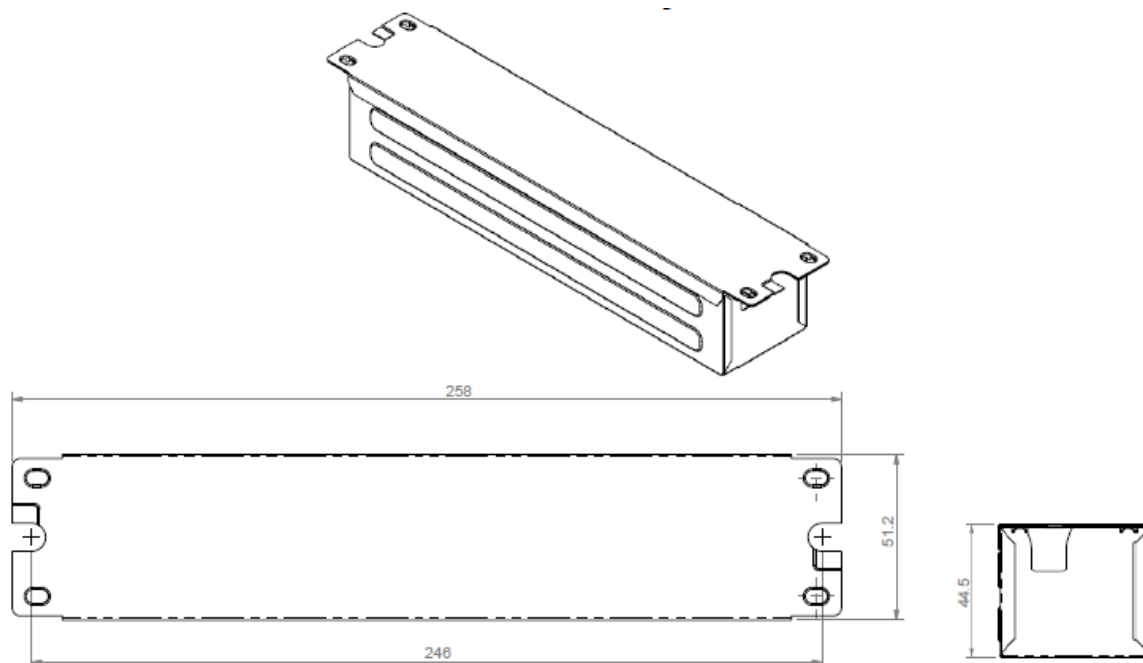
Constant Voltage LED Power Supply for 24V LED – Modules

### 1 Technical Data

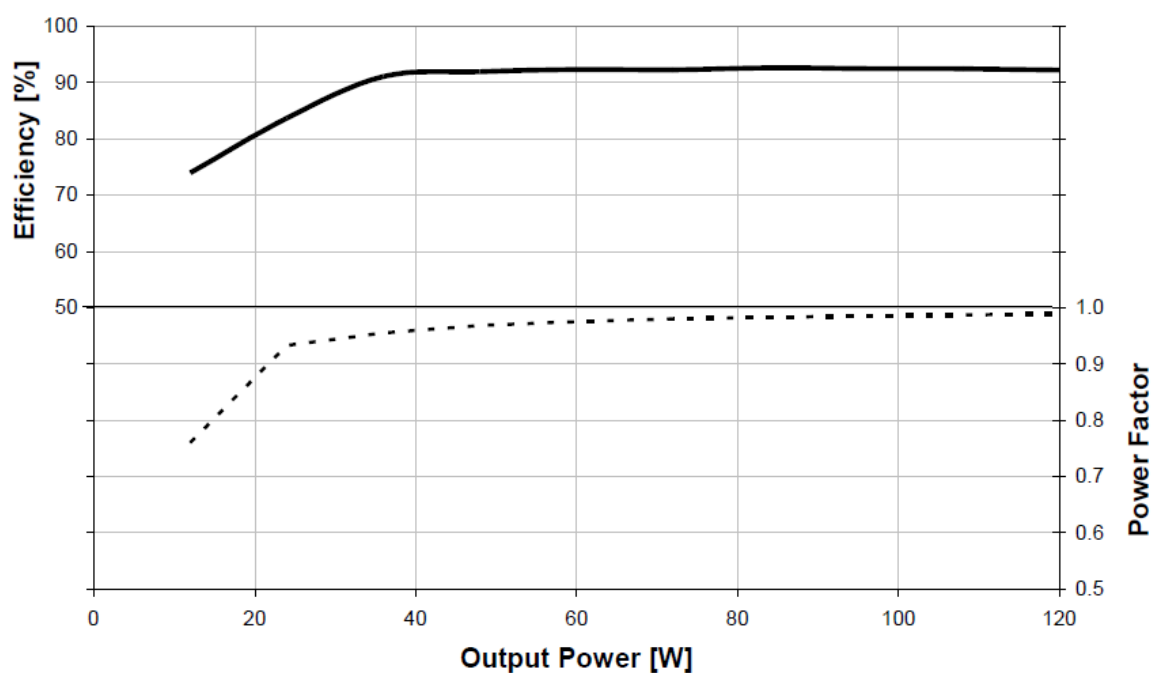
Reference:	<b>OTe 120/220-240/24 E</b>
For LED modules:	24V LED Modules with respect to the output parameters:
Line voltage, nominal:	220 – 240 V <sub>AC</sub>
Line current, nominal:	0,6 A @230V
Line frequency:	50/60 Hz
Protection Class:	I
Output voltage:	24V DC
(Remark)	Tolerance: +/-5%
Maximum load	120 W
Partial load	12W-120W
Power factor:	> 0.95 : Full load @230 V > 0.90 : Half load @230 V
Power losses:	15W max @230V
ECG efficiency:	>=90 % @230V
(Remark)	full load @ 230 V
Power loss in no load condition:	< 5 W
Input Voltage:	198 - 264 V <sub>AC</sub>
(Remark)	Permitted Voltage Range
DC voltage operation:	No
Inrush current:	≤ 70 A
(Remark)	t <sub>width</sub> @ 300μs
Max. no. of ECG @ circuit breakers 10 A (B type):	3
Max. no. of ECG @ circuit breakers 16 A (B type):	5
Ambient temperature range, t <sub>a</sub> :	-10 °C to +50 °C
Max. case temperature at t <sub>c</sub> point:	70 °C
ECG Life time:	50,000h
(Remark)	at t <sub>case</sub> = 70 °C at t <sub>c</sub> point and 10% failure rate
Maximum casing temperature in case of fault:	90 °C
Dimmable:	No
No-load proof:	Yes
Short circuit protection:	Automatic, reversible
Overload protection:	Automatic, reversible
Overheating protection:	Automatic, reversible
Wire cross section	Input: 1,0 mm <sup>2</sup> / Output: 1,0 mm <sup>2</sup>

Input/output line: (Remark)	Input: 17 AWG / Output: 17 AWG Flexible
Cable Length: Input side / Output side:	~ 450 mm / ~ 450 mm
Input colour coding :	L: brown N: blue PE:yellow/green
Output colour coding:	LED Module (+): red LED Module (-): black
Wire stripping:	8 mm
Max. cable length – system:	10 m
Geometry (l x w x h mm <sup>3</sup> )	258 x 51.2 x 44.5 mm <sup>3</sup>
Mounting hole spacing/length:	6.0 mm
Mounting hole spacing/width	8.7 mm
Weight:	1100 g
Casing:	Metal
IP Code:	IP64
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
Surge:	L-N: 1kV, L/N – Ground: 1kV
Galvanic insulation between primary and secondary side: (Remark)	3.75 kV <sub>rms</sub> ,  SELV
Approvals:	  

## 2 Geometry



## 3 Typical Efficiency and Power Factor versus Load



## 4 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 OTe 120/220-240/24 E 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.
4. For energy saving, please do not power on the driver without LED load and secondary switching is not allowed.

## 5 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.

## 6 Ordering Information

	<b>EAN 10 (1 pc)</b>	<b>EAN 40 (10 pcs)</b>
<b>OTe 120/220-240/24 E</b>	4008321645715	4008321645722

OSRAM GmbH

Head Office:

Marcel-Breuer-Strasse 6  
80807 Munich, Germany  
Phone +49 89 6213-0  
Fax +49 89 6213-2020  
[www.osram.com](http://www.osram.com)

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