

**Technical data**

Reference:	<b>OTe 90/220-240/4x500 E</b>
For LED modules:	500 mA / 1000mA LED
Nominal Voltage:	220 – 240 V <sub>AC</sub>
Line current, nominal:	0,44 A @ 230V <sub>AC</sub>
Mains frequency:	50/60 Hz
Protection Class:	I
Output current:	500 mA / 1000 mA
(Remark)	4 channels / 2 channels, Tolerance: +/- 10%
Output voltage:	≤ 45 V <sub>DC</sub>
(Remark)	maximum 52V <sub>DC</sub>
Output Power:	90 W
(Remark)	Partial Load 35W .. 90W
Rated Power factor:	≥ 0,95 (> 50W total output power) @ 230V <sub>AC</sub> ≥ 0,90 (> 36W total input power) @ 230V <sub>AC</sub>
Power loss:	< 15 Watt max.
ECG efficiency:	≥ 87 %
(Remark)	full load at 230V
Power Loss in no load condition:	< 4 W (4 channels)
Input Voltage:	198 – 264 VAC
(Remark)	Permitted voltage range
DC Voltage:	No
Dimmable:	No
No-load proof:	Yes
Short circuit protection:	Automatic, reversible
Overload protection:	Automatic, reversible
Overtemperature protection:	No
(Remark)	only for AA3132100DG
Ambient temperature range, t <sub>a</sub> :	-25 °C to +55 °C
Max. case temperature at t <sub>c</sub> point:	70°C
ECG Lifetime:	50.000h
(Remark)	at t <sub>case</sub> = 65 °C at t <sub>c</sub> point and 10% failure rate
Maximum casing temperature in case of fault	130 °C
(Remark)	only for AA3132100DG

Inrush current: (Remark)	$\leq 40\text{A}$ $t_{width} @ 300\mu\text{s}$
Max. no. of ECG @ circuit breakers 10 A (B type):	3
Max. no. of ECG @ circuit breakers 16 A (B type):	6
Max. no. of ECG @ circuit breakers 16 A (B type): In combination with EBN-OS	-
Cable cross section input side / output side: (Remark)	Input: $\sim 0,83 \text{ mm}^2$ / Output: $\sim 0,33 \text{ mm}^2$ Input: 18 AWG / Output: 22 AWG Flexible
Cable length Input side / output side:	$\sim 35\text{cm}$ / $\sim 30\text{cm}$
Wire preparation length Input side / output side:	7 - 9 mm / 7 - 9 mm
Max. cable length - system:	10 m
Geometry (l x b x h):	238 x 89 x 46 mm
Mounting hole spacing/length:	221 mm
Mounting hole spacing/width:	62 mm
Weight:	$\sim 1,8 \text{ kg}$
IP Code:	IP64
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:	5 -150 Hz sine sweep, 2g acceleration
Surge capability:	L-N: 3kV, L/N – Ground: 3,5 kV; (LED Module connected to PE)
Galvanic isolation primary/secondary : (Remark)	3,75 kVrms SELV-equivalent
Approvals:	<b>CE</b>

# OPTOTRONIC®

## OTe 90/220-240/4x500 E

4x500mA/ 2x1000mA

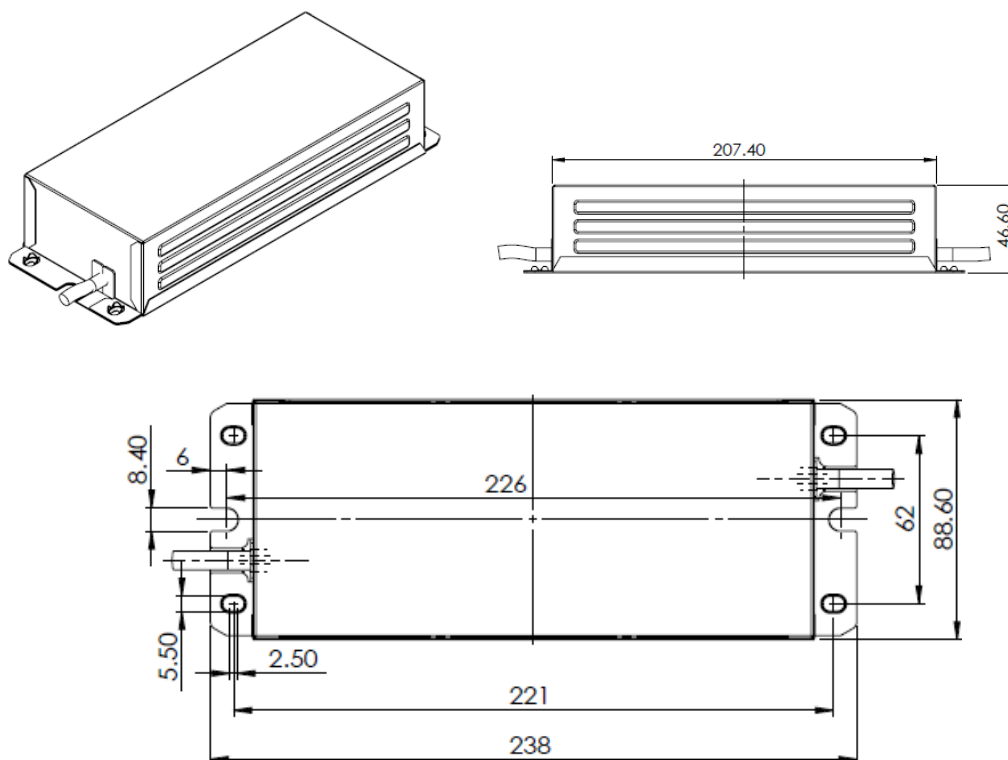
Outdoor Constant Current LED Power Supply

## Technical Information

Edition: March 2012

subject to change

### Geometry

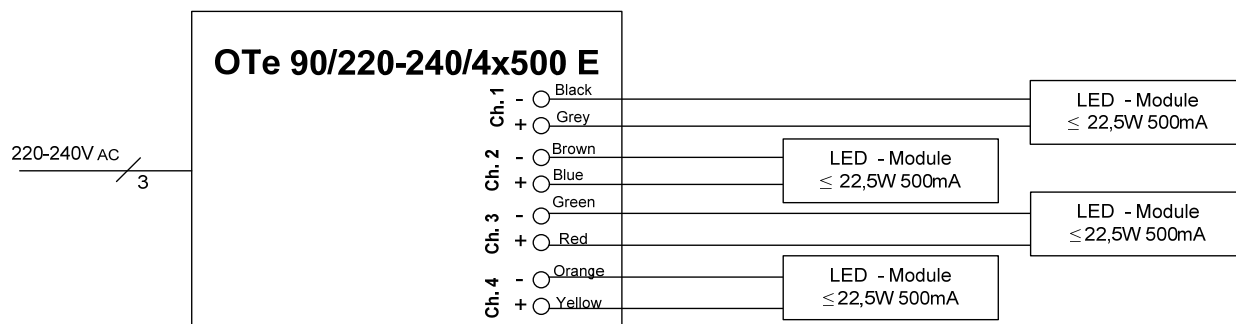


### Ordering information

	Version	EAN 10 (1pcs)	EAN 40 (6pcs)
OTe 90/220-240/4x500 E	AA31321	4008321651600	4008321651617

### Wiring diagram

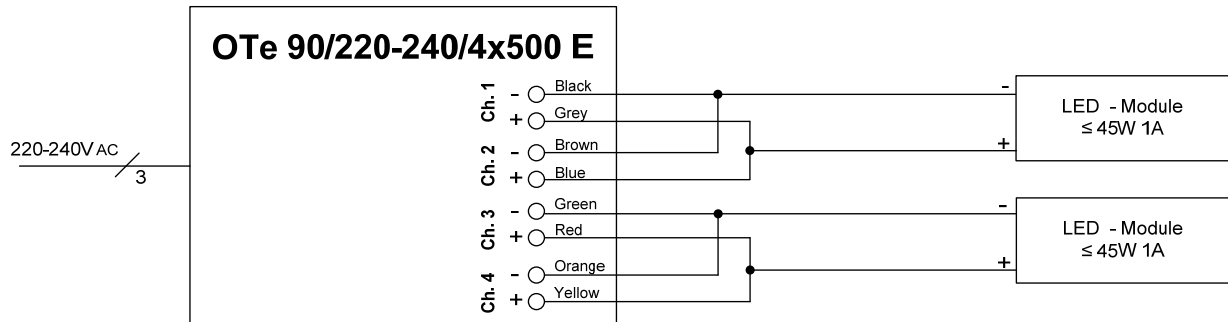
4 Channels (500mA)



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2 Channels (2x1000mA)



Cable must connect according to above color pair.

### 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 90/220-240/4x500 E is mandatory for safety and EMC reasons. The ground connection could be done either with the input cable or via the housing case. If ground connection is done via the housing case, proper countersunk screws should be used.
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. Output current could be doubled by putting two channels together according the above color pairs
5. Can be treated as independent type for indoor application with respect of the relevant standard IEC 60598 and IEC 61347

### 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.