

**Technical data**

|                                                |                                                                                |
|------------------------------------------------|--------------------------------------------------------------------------------|
| Reference:                                     | <b>OTe 60/220-240/12 P</b>                                                     |
| For LED modules:                               | 12V LED Modules<br>with respect to the output conditions:<br>BackLED<br>BoxLED |
| Nominal Voltage:                               | 220 – 240 V <sub>AC</sub>                                                      |
| Line current, nominal:                         | 0,32 A @ 230V                                                                  |
| Mains frequency:                               | 50/60 Hz                                                                       |
| Protection Class:                              | I                                                                              |
| Output voltage:<br>(Remark)                    | 12,5V DC<br>Tolerance: ± 0,5V                                                  |
| Output Power:                                  | 60W                                                                            |
| Rated Power factor:                            | > 0,9 (full load) @ 230V                                                       |
| Power loss:                                    | < 13W max.                                                                     |
| ECG efficiency:<br>(Remark)                    | > 83 %<br>full load at 230V                                                    |
| Power Loss in no load condition:               | < 2 W                                                                          |
| Input Voltage:<br>(Remark)                     | 198 – 264 VAC<br>Permitted voltage range                                       |
| DC Voltage:                                    | No                                                                             |
| Inrush current:<br>(Remark)                    | ≤ 35A<br>$t_{width@ 420\mu s}$                                                 |
| Ambient temperature range, t <sub>a</sub> :    | -25 °C to +55 °C                                                               |
| Max. case temperature at t <sub>c</sub> point: | 90°C                                                                           |
| ECG Lifetime:<br>(Remark)                      | 50.000h<br>at t <sub>a</sub> +45 °C and 10% failure rate                       |
| Maximum casing temperature in case of fault    | 120°C                                                                          |

# OPTOTRONIC®

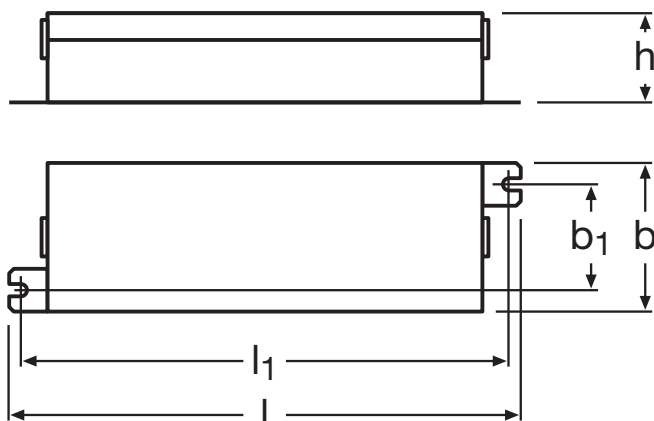
## OTe 60/220-240/12 P

Constant Voltage LED Power Supply for 12V LED  
- Modules

## Technical Information

Edition: April 2011  
subject to change

|                                                              |                                                                                                                     |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Dimmable:                                                    | No                                                                                                                  |
| No-load proof:                                               | Yes                                                                                                                 |
| Short circuit protection:                                    | Automatic, reversible                                                                                               |
| Overload protection:                                         | Automatic, reversible                                                                                               |
| Overtemperature protection:                                  | Automatic, manual reset                                                                                             |
| Cable cross section<br>input side / output side:<br>(Remark) | Input: ~ 0,83 mm <sup>2</sup> / Output: ~ 0,83 mm <sup>2</sup><br>Input: 18 AWG / Output: 18 AWG<br><i>Flexible</i> |
| Cable length<br>Input side / output side:                    | ~ 33cm / ~ 33cm                                                                                                     |
| Max. cable length – system:                                  | 10 m                                                                                                                |
| Geometry (l x b x h):                                        | 170 x 53 x 38 mm <sup>3</sup>                                                                                       |
| Mounting hole spacing/length:                                | 163 mm                                                                                                              |
| Mounting hole spacing/width:                                 | 35 mm                                                                                                               |
| Weight:                                                      | 500g                                                                                                                |
| IP Code:                                                     | IP65                                                                                                                |
| Suitable for fixtures<br>with protection class:              | Class I                                                                                                             |
| ECG outdoor protection against<br>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 capability:                                            | L-N: 2kV; L/N – Ground: 4kV;                                                                                        |
| Galvanic isolation<br>primary/secondary :<br>(Remark)        | 3,75 kVrms<br><i>SELV-equivalent</i>                                                                                |
| Approvals:                                                   | CE                                                                                                                  |

**Geometry**

$l = 170\text{mm}$ ,  $l_1 = 163\text{mm}$ ,  $b = 53\text{mm}$ ,  $b_1 = 35\text{mm}$ ,  $h = 38\text{mm}$

**Ordering information**

|                            | <b>EAN 10</b>        | <b>EAN 40</b>        |
|----------------------------|----------------------|----------------------|
| <b>OTe 60/220-240/12 P</b> | <b>4008321974457</b> | <b>4008321655318</b> |

**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 60/220-240/12 P 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.

**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.