

OPTOTRONIC®

OT 120/220-240/12 P

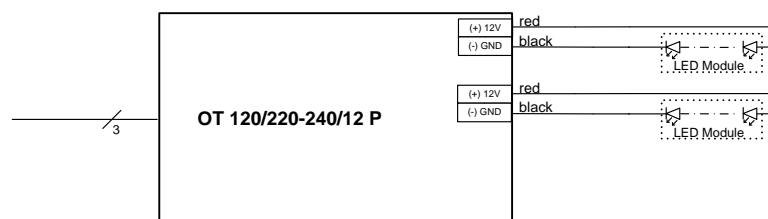
Constant Voltage LED Power supply for 12V LED - Modules

1. Technical Data

Nominal Voltage	220 – 240 Vac
Input Voltage	198 – 264 Vac
Line Current, nominal	0,65A @230Vac
Mains Frequency	50 / 60 Hz
Power Factor	= 0,98 @ 230 Vac
Interface	None
IP Rating	IP 67
Max Output Power	120 Watt

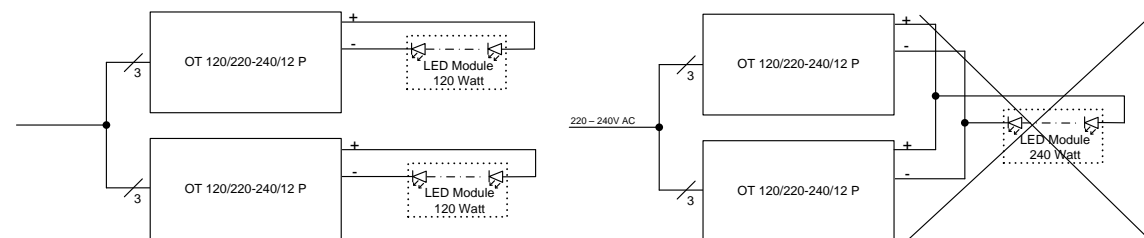
Output Voltage	12,5 Vdc (-0,5 V/+0,5 V)
Efficiency	88 % @230Vac
Ambient Temperature	-25°C to +55°C
Max. Case Temperature at tc	+ 80°C
Max. Cable Length	10m
Max load per circuit breaker B10	6
Max load per circuit breaker B16	10
Max load per circuit breaker C10	9

2. Connection schemes

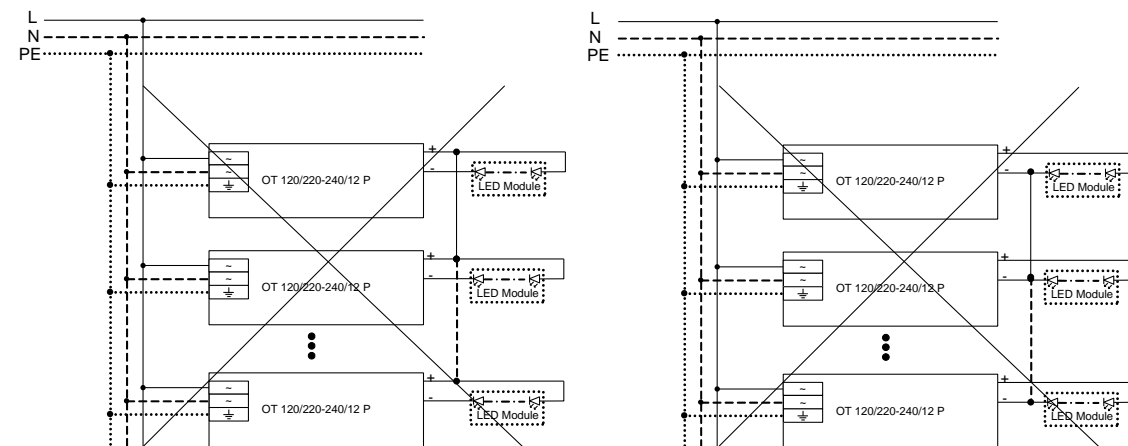


- Ensure proper insulation of not connected wire terminals.
- 2 Output channels for optional splitting of the load (1 channel use also possible when the not used cable is open)
- Ensure that the complete Load is not connected to one channel. Maximum output current is limited by the cross section of the cable (7.5A per channel – 90 Watt) a). It is possible to join the two output cables together, in parallel, to drive one module at max power.

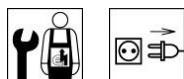
3. Safety



Power supplies can be connected in parallel on the primary side, but not on the secondary side



The installation of two or more OPTOTRONIC® OT 120/220-240/12 P Power supplies with common “-” or “+” wiring is forbidden.



OSRAM AG
www.osram.com

Steinerne Furt 62, 86167 Augsburg, Germany



2013-03-13

AA390790055

No. 1, North Industrial Road
528000 Foshan Guangdong, P.R. China

OPTOTRONIC®

OT 120/220-240/12 P

Constant Voltage LED Power supply for 12V LED - Modules

Wiring and Connection

- Ensure that the LED module load is within the range of rated voltage, current and power (see Technical data)
- Maximum output cable length is limited by EMI and cross diameter
- Use output cable sections adequate to the load demand
- The luminaire manufacturer is responsible for providing the required clearances and creepage distances and also for protection against electrical shock, especially for the line and load wires
- Please avoid direct exposure of sunlight and in case of exposure to UV rays, protect the cables with suitable silicone sheath.
- Not used output cables have to be insulated separately

Earth Connection

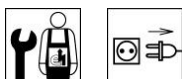
- Protective earth connection of OT 120/12 P is mandatory for safety and EMI reasons
- The ground connection has to be done via the input cable

Mounting and Environmental protection

- The control gear is a built in type for luminaire integration
- Maximum permissible ambient temperature must not be exceeded. Make sure there is adequate space to avoid a build-up of heat. In critical installations the temperature at t_c has to be controlled

General Note

- Power supplies must be installed by a qualified electrician
- Disconnected from mains supplies before wiring work
- For further information see also "OPTOTRONIC – Technical guide" at www.osram.com



2013-03-13

AA390790055

OSRAM AG

www.osram.com

Steinerne Furt 62, 86167 Augsburg, Germany

No. 1, North Industrial Road
528000 Foshan Guangdong, P.R. China

OSRAM

