

OT 18/200-240/700 DIM

Electronically stabilized constant current LED-Power Supply

Technical Information

Edition: Dec. 2006
subject to change

Status: draft

Technical data:

Reference:	OT 18/200-240/700 DIM
For LED modules:	OSTAR-Lighting and 700mA High Flux LED Operation of <ul style="list-style-type: none"> ▪ 500 mA High Flux LED via enclosed 18 kΩ resistor ▪ 350 mA High Flux LED via 12 kΩ resistor
Line voltage, nominal:	200 – 240 V _{RMS}
Line current, nominal:	< 0,2 A _{RMS}
Line frequency:	50/60 Hz
Perm. line voltage fluctuations:	180 – 254 V _{RMS}
Power factor:	> 0.5
Output voltage:	0 – 25 V _{DC}
Output current:	DC current 700 \pm 35 mA, electronically stabilized
Control voltage:	1 – 10 V _{DC}
Control current max:	0.6 mA _{DC}
Max. module wattage:	17 W
Max. number of LED	Max. 1 OSTAR-Lighting 4-chip or 6-chip
Max. losses:	4.3 W
Safety:	IEC 61347
Performance:	IEC 62384
Radio interference:	EN 55015
Immunity:	IEC 61547
Harmonic content:	IEC 61000-3-2
Temperature range:	-20 °C to +50 °C
Galvanic insulation between primary and secondary side	3 kV _{RMS}
Non-load proof:	Yes
Short circuit protection:	Autom. shutoff, reversible
Overload protection:	Autom. shutoff, reversible
Overheating protection:	Autom. shutoff, reversible
Dimming mode:	Regulation of the DC output current
Dimming range:	0 – 100 %
Connectors:	Terminal screws
Primary:	Main terminal
Wire cross section, primary:	H05VV-H2F(2x0,75) mm ² H05VV-F(3x1,5) mm ² H05VV-F(3x0,75) mm ² NYM(3x1,5) mm ²
Secondary:	LED terminal 1 – 10 V dimming control signal

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Wire cross section, secondary: H05VV-H2F(2x0,75) mm²
H05VV-F(3x1,5) mm²
H05VV-F(3x0,75) mm²
NYM(3x1,5) mm²

Max. cable length: 10 m

Geometry (l x w x h): 109 mm x 53 mm x 33 mm

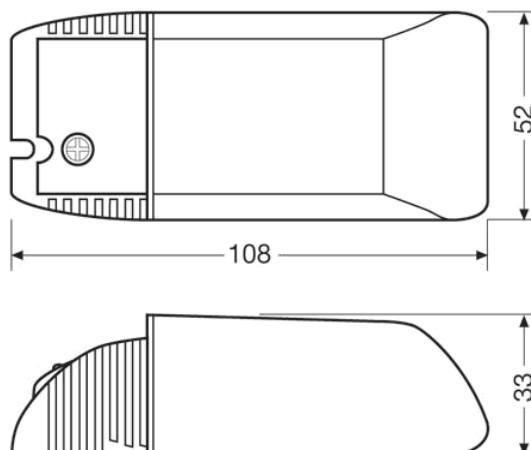
Approvals:



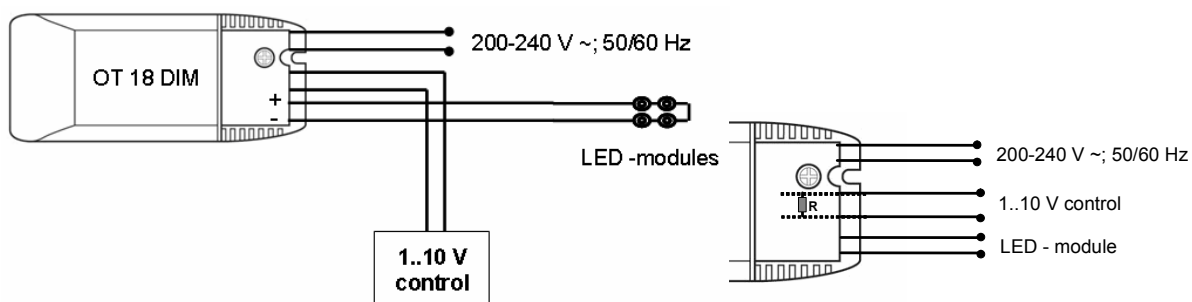
; in preparation:



Geometry



Circuit diagram



Adjustment of the output current by adequate resistor (see diagram) For the 500 mA operation a 18 kΩ resistor is added.

! Attention: Connection of the LED-modules only in series!

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Application-oriented adjustment of the nominal current by connection a adequate resistor (see diagram). The output voltage is limited at max. 25 V (SELV), due to the output power depends on the output current, e.g. approx. 12,5 W @ 500mA,

