

# Dimmable electronic transformer for LED AC TEG-YT-150T

# GOVENA



Dimmable electronic transformer dedicated to work with **12V LED** lamps (provided that the lamp manufacturer guarantees correct operation with an electronic transformer) and with low-voltage halogen lamps.



### Properties:

- Cooperation with light dimmers: triac (leading edge phase control) and transistor (trailing edge phase control).
- Cooling by free air convection.
- 100% full load burn-in test.
- Galvanic separation.
- Isolation between the primary and the secondary circuit: 3.75 kV AC.
- Reversible protections: short circuit, overvoltage, overload (load > 200% Pn) and thermal (shutdown temp. 100°C).
- Insulated terminals.
- Non-flammable housing.
- No surge when switched on.

### The construction of the transformer allows:

- Connection of any load, e.g. 1W, when used LED light sources must be followed to the manufacturer's instructions light sources due to the nature of the AC output voltage with a frequency of about 30kHz.
- Regulation of lighting intensity in the full range from 0% to 100%.
- Connecting multiple transformers to one dimmer.
- Connecting a 4mm<sup>2</sup> wire cross section to the one terminal.
- Installation in buildings with an undetermined flammability class of the substrate, e.g. furniture.

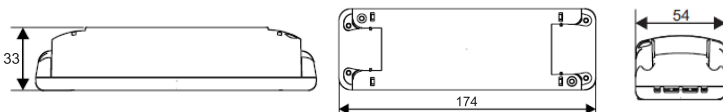
SPECIFICATION	
INPUT VOLTAGE	230VAC +/- 10% 50Hz
INPUT CURRENT	0.65A max
POWER RANGE	0-70W (LED) 0-150W (halogen)
OUTPUT VOLTAGE	11.5VAC max. 13A
OUTPUT FREQUENCY	25kHz-30kHz (Measure TRUE RMS 100kHz)
POWER FACTOR (PF)	>0.99
AMBIENT TEMPERATURE	0°C do +40°C
EFFICIENCY (average)	95%
SAFETY CLASS	II
INPUT TERMINALS	4
OUTPUT TERMINALS	6
WEIGHT	235g

### Compliance with standards

- EN61347-1
- EN61347-2-2
- EN55015
- EN61547
- EN61000-3-2
- LVD 2014/35/EU
- EMC 2014/30/EU
- ErP 2009/125/EC (No. 278/2009, 1194/2012)
- RoHS 2011/65/EU
- RoHS 2015/863/EU

### Installation information:

Dimensions:(L x W x H) 174mm x 54mm x 33mm.



- Light dimmer should be installed on power input wire leading to transformer (Fig.1)
- Don't connect transformers outputs (Fig.1)
- When output wires have diameter higher then 4 mm<sup>2</sup>, there should be used connection bar to connect lamps (Fig.2)
- When distance between transformer and halogen lamps is big use connection as shown to Fig.3 don't use series connection.
- Bigger number of halogen lamps, connect as shown on diagram Fig.4
- The output cables should be as short as possible (max. 2 m), routed twisted pair or parallel wires (Fig.5)
- Make sure that the individual bulbs are correctly connected (Fig.5)
- The fixing screws (3x20) are factory-fitted into the housing and secured against falling out during assembly.
- Instal in places with good air flow, away from heat sources.

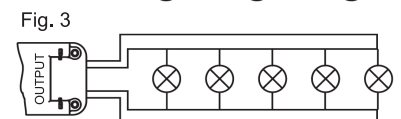
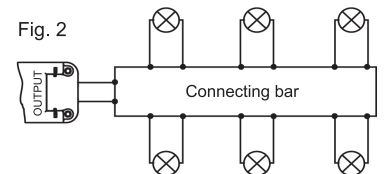
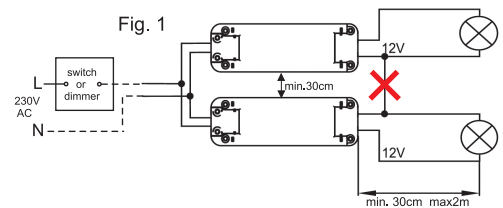


Fig. 5

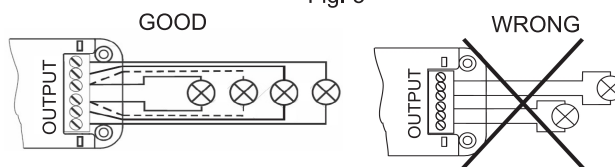
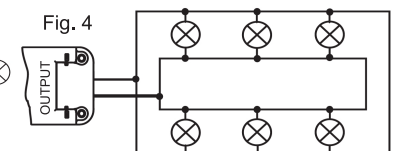


Fig. 4



Minimum cross section of input wires for nominal load	Total cross section for the output wires of nominal load
2 x 1,0 mm <sup>2</sup>	2 x 3,0 mm <sup>2</sup> (4 x 1,5 mm <sup>2</sup> )

Minimum cross section of output wires for 1 lamp 12V	
20W	0,5 mm <sup>2</sup>
35W	0,75 mm <sup>2</sup>
50W	1,0 mm <sup>2</sup>