

01/12-11

Datasheet and connecting plan

## 50-Volt High-Power Constant Current Source HKO50V-350-1000 für 3 Watt High-Power-LEDs, dimmable from 0 to 100%

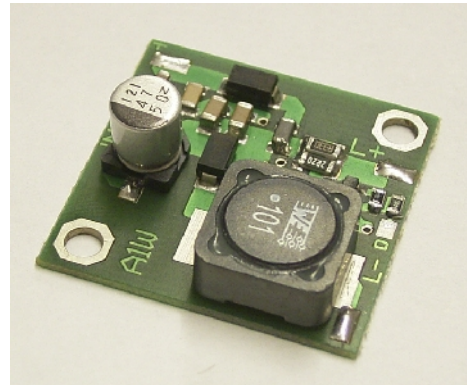


### 50 Volts HIGH-POWER CONSTANT-CURRENT SOURCE UP TO 1000 mA for maximal light-power and safe operation of 350 to 1000 mA LEDs.

High efficiency and low heat through modern switcher-technology. Small dimensions, low weight and high reliability are achieved by SMD-Technology (surface mounted components). Every HKO is electronically tested.

Technical data: 350-700-100mA-versions:

- Startup: ca. 5,5 volts (7 volts for 1000mA) for one 3 Watts LED
- Drop: ca. 2 volts for one LED (3,5 volts for 1000 mA)
- Maximum input voltage: 50 volts DC (max.)
- Output : protected against short circuit
- Output current: 350mA 700mA 1000mA
- Input: reverse polarity protected
- Tolerance < 5%
- Efficiency: up to 95 %
- Working temperature range: -40 °C bis +85 °C
- Dimming/Shutdown: +3 up to + 50 volts, ca. 300 Hz max.
- Dimming ratio: 3000 : 1, 0 volts is on, 3 volts and above is off



The circuit can drive in series connection up to 14 High-Power-LEDs in white, blue or green, or up to 20 High-power-LEDs in red, amber, orange oder yellow depending on the input voltage with constant current. For optimum live time of High-Power-LEDs, typ. 50.000 hours.

The back side of the printed circuit board is tin plated and connected with -IN, please take care when mounting. For cooling and isolation you can use our cooltape. Suitable power supply: 48V 1,1A in our shop 48VSWNT52W

Printed circuit board:

Dimensions: 29 mm x 29 mm, 9 mm high

Connecting: soldering pads

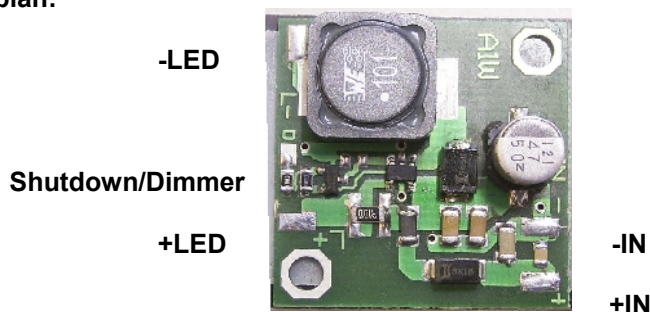
Weight: ca. 6 gram

Material: FR4, glass/epoxy

Back side: copper, tin plated, connected with - IN

Drill holes: M3

#### Connecting plan:



**Attention:** Never connect -IN with -LED! Do not switch the output-side, switch only the input or use the shutdown (negligible power consumption)

Available versions:

Standard: HKO50V-350 (350 mA) HKO50V-700 (700 mA) HKO50V-1000 (1000mA)

Other values on request.

-Stand: 07/11-alterations preserved-

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Homepage: <http://www.A1W.de> E-Mail: [info@A1W.de](mailto:info@A1W.de)