

**Very useful to charge accumulators with 2800 mA !  
Highly efficient with constant current!**



09/08-01

Datasheet and connecting plan

# High Power Constant Current Source: **HKO2800** for Seoul P7 ®, for maximum lighting power

## **HKO2800 – HIGH POWER CONSTANT CURRENT SOURCE 2800 mA** for operating of **Seoul P7 ®** LEDs and similar components

High efficiency and low heat by modern switching technology. The use of special amplifiers guarantees a precise and constant output-current. Small dimensions, low weight and high reliability through the use of SMD-technology (surface mounted components). Every HKO is electronically tested..

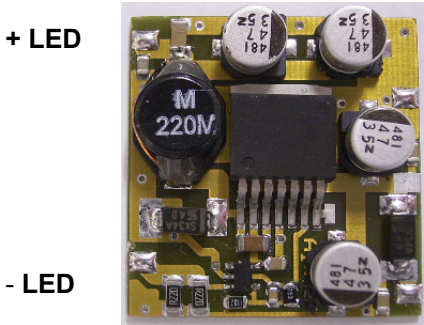
Technical data HKO2800:

- Startup: ca. 5,1 volts (for one P7) with reverse polarity protection
- Startup: ca. 4,7 volts (for one P7) without reverse polarity protection
- Drop: ca. 2 volts
- Maximum input voltage: 35 volts DC
- Output: Short circuit protected
- Output current: 2800 mA constant
- Input: reverse polarity protected (can be passed)
- Tolerance < 3% over the complete voltage range
- Efficiency: depending on the count of LEDs and input voltage between 75 und 90 %
- Thermal protection
- Working temperature range: -40 °C bis +85 °C

To drive up to 9 P7 Leds in series with 35 volts input for maximum light power! The LEDs must be cooled, please refer to the data sheets of the manufacturer. The back side of the CCS is covered with tinned copper, it is connected to minus input (don't forget, when mounting the constant current source) The HKO2800 must be cooled for continuous operation . The printed circuit board can be easily mounted on a heat sink or metal surface with the self adhesive coolantape.. Due to the high currents in the input of the circuit additional filtering may be necessary. Please check. We recommend very short cables to the power source.

Printed circuit board:  
Dimensions: 30 mm x 31 mm, 7 mm high  
Connections: soldering pads  
Weight: ca. 5 grams  
Material: FR4  
Back side: copper, tinned, connected with - IN

### Connecting plan:



- IN
- + IN without reverse polarity prot.
- + IN reverse polarity protected

**Shutdown- Pin:** At the Shutdown- Pin is a soldering pad that can be used for external controlling (e.g. by using our "DIMLED" to control the brightness) independent auf your main power supply.(TTL-compatible).

Shutdown-Pin:  
See mark.

**Attention: NEVER connect „-IN“ and „-Led“!!! Do not switch output side, switch input side or shutdown pin only!**

Available versions:  
HKO1400(1400mA) HKO1500(1500mA) HKO2000(2000mA) HKO2200(2200mA) HKO2500(2500mA) HKO2800(2800mA)  
-date: 09/08-alterations preserved-  
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homepage: <http://www.constant-current.com> e-mail: [info@A1W.de](mailto:info@A1W.de)