

## LED Converter C50/990D

**Type:**

Electronic converter for the operation of light emitting diodes (LEDs) in series connection, dimmable via control input (0 - 10 V).

**Functional description (control input open):**

- The input voltage (e.g. 110 V - 230 V, 50/60 Hz) is rectified and smoothed by means of a capacitor.
- An additional electronic circuitry generates a constant output current for the LEDs.
- The output current is preset to 50 mA DC.
- The output voltage automatically adjusts to the respective load.

**Control input:**

Galvanically isolated control input (0 - 10 V)  
Control via voltage reduction  
Current consumption max. -20 µA

**Primary data:**

110 - 230 V (+/- 10 %), 50/60 Hz  
Current consumption 110 V/max. 0.6 A, 230 V/max. 0.3 A  
Suitable for emergency power supply 150 - 330 V DC

**Secondary data (control input open):**

C 50/990D: 990 V (DC, max.), 50 mA (+/- 5 %)

**Fuses:**

1 A embedded, non-replaceable melting fuse  
Fusing resistor in output cable

**Short-circuit / open-circuit protection:**

The converters are short-circuit- and open-circuit-proof (no cut-off).

**Galvanic isolation:**

The input and output are galvanically isolated.

**Weight:** 1.00 kg

**Radio interference suppression:**

According to VDE 0875, Part 2A1 (EN 55015)

**Temperatures:**

Ambient temperature range: -25 to +55°C

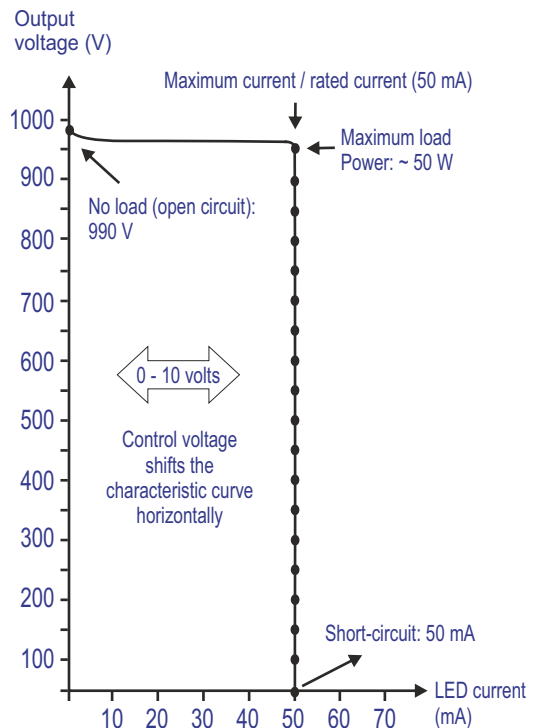
**Housing:**

Hard PVC shell  
Fire protection class: B1  
Standard colour: white  
Sealing compound: polyurethane (black)

**Class of protection:** I

**Degree of protection:** IP 67

**Output characteristic C50/990D**



**Maximum loading:**

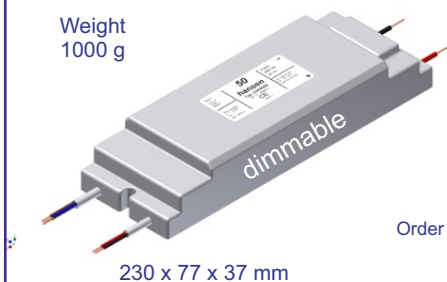
White	300 LEDs
Blue, green	280 LEDs
Red, yellow, amber	430 LEDs

**Control input function:**

- Control voltage: 0 - 10 V DC
- 0 V: no LED current
  - 5 V: ~ 50 % LED current
  - 10 V: maximum LED current
- Control input open: maximum LED current  
Control input short-circuited: no LED current

**Housing dimensions**

Weight  
1000 g



Order no. 5 2599 051

Control cable:  
H03VV-F, 2 x 0.75  
Colour coding: red, black  
Length: 1000 mm

Mains cable:  
H03VV-F, 3 x 0.75  
Colour coding: brown, blue  
Length: 1000 mm

Output cables:  
SAAd 1.0 mm<sup>2</sup> re Cu 1000 V  
Length: 500 mm  
red (+), black (-)



Technical modifications reserved. Content is protected by copyright.

January 2019 C50-990D-e/01/2019