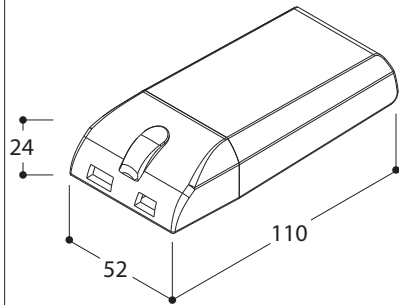
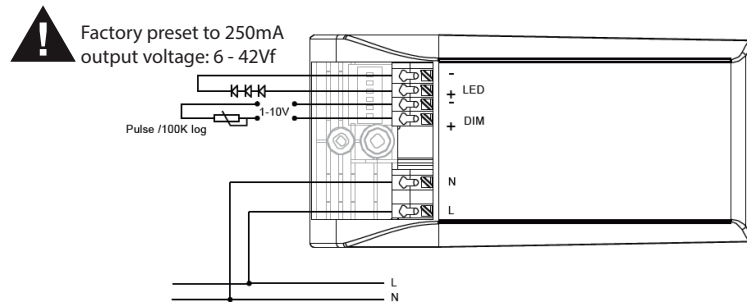


ref	930599
name	POWERLED CONVERTOR 12W 250mA DIMMABLE 1-10V

**! Always disconnect the mains of the converter before plugging or unplugging the LEDs !**



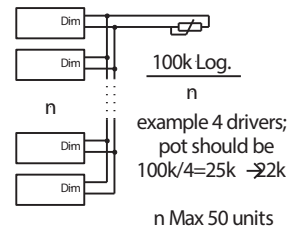
Wiring diagram



**ONLY REMOVE RESISTOR IN CASE OF DIMMING**

DIM-input can be controlled with:  
 a standard 1-10V controller (range 0-100%),  
 a 100k potentiometer (range 0-100%) and  
 a pulse switch (range 3-100%). A short pulse switches the LEDs on or off.

When using more drivers on one dimmer (pot.meter only):



### Technical data

Rated supply voltage	220-240 Vac
Input voltage	180-240 Vac 150-275 Vdc *
Mains frequency	50/60 Hz
Output current tolerance	5 %
100 Hz ripple current at full load	<1 %
Power factor at full load	0.97C
Standby power	350 mW
Nominal line current at 240 Vac	110 mA
Dimming method	linear
Minimum dim level	15 mA - off
Non-volatile memory	Yes
Startup time	< 1s
Warm up time to 95% of light output	< 2s
Output isolation	SELV
Surge protection (diff. / comm.)	2 kV / 6 kV
IP classification	IP 20
Circuit lifetime	50,000 hrs at Tc max.
Case dimensions	110 x 52 x 23.5 mm

\* External DC fuse is required

### Inrush current

Mains max. peak inrush at full load	0.200A per driver on phase 60° (average starting angle)* 0.327A per driver on phase 90° (worst case starting angle)* 0.162A per driver on phase 60° (average starting angle)** 0.170A per driver on phase 90° (worst case starting angle)**
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\*\* Tested at 240 Vac 1 driver connected, with TTI HA1600A analyzer.

\* Tested at 240 Vac 10 drivers parallel connected, with TTI HA1600A analyzer.

### Maximum number of drivers on automatic circuit breakers

Automatic circuit breaker type	C10	C13	C16	C20	B10	B13	B16	B20
L05031	59	76	94	117	59	76	94	117



### Unexpected behaviour when using 1-10V controller system:

When controlling the driver with a 1-10V system it can occur that the 1-10V controller delivers (or allows) a spike that is higher than 12V. The spike triggers the driver in to 'pulse switch mode'.

This will result in unexpected and unintended behavior of the LEDs.

In case of symptoms like these, it is sufficient to clamp the output of the control system with a 10 or 12V zener diode. (cathode connected to the positive)