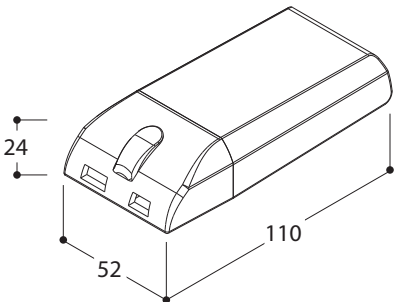
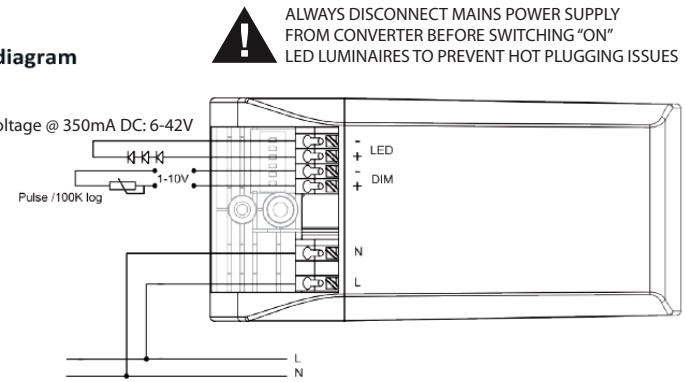


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name	POWERLED CONVERTOR 1-20W 350mA DIMMABLE 1-10V



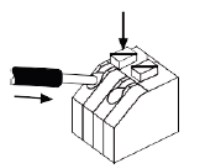
Wiring diagram

forward voltage @ 350mA DC: 6-42V

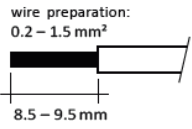


! ALWAYS DISCONNECT MAINS POWER SUPPLY FROM CONVERTER BEFORE SWITCHING "ON" LED LUMINAIRES TO PREVENT HOT PLUGGING ISSUES

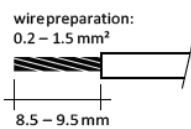
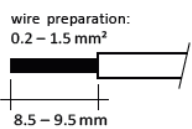
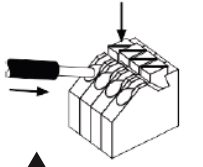
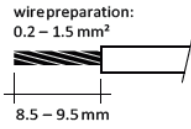
Wiring of device



Solid

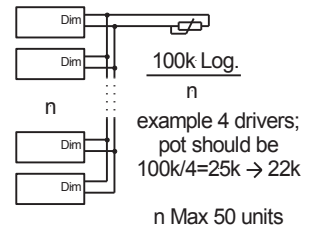


Stranded



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):



! 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)

Disorganized system when using pulse function:
When parallel connecting a pulse switch on several drivers it can occur that the pulse length is exactly too short or too long. On this critical border it can be that the drivers are not working in unison. It can be reset without disconnecting the mains power. Reset procedure: By long pressing the pulse switch the drivers always turns on, independently of the initial state. Give a short pulse and all the drivers are now off. By long pressing again all drivers turn on and ramp up in unison.

We recommend pulse operation mainly for fixtures in which each driver is regulated independently.

Complete synchronous regulation isn't processed in the driver.

Inrush current

Mains max. peak inrush at full load	0.255A per driver on phase 60° (average starting angle)*
	0.851A per driver on phase 90° (worst case starting angle)*
	0.321A per driver on phase 60° (average starting angle)**
	0.879A per driver on phase 90° (worst case starting angle)**

** Tested at 240 Vac 1 driver connected, with TTI HA1600A analyzer.
* Tested at 240 Vac 10 drivers parallel connected, with TTI HA1600A analyzer.

Technical data



Rated supply voltage	220-240 Vac
Input voltage	180-240 Vac / 150-375 Vdc*
Mains frequency	50/60 Hz
Output current tolerance	5%
100 Hz ripple current	<1%
Power factor at full load	0.97
Standby power	350 mW
Nominal line current at 240 Vac	160 mA
Dimming method	linear
Minimum dim level	15 mA
Nonvolatile memory	Yes
Startup time	< 1s
Warm up time to 95% of light output	< 1s
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
Case material	Polyamide 6 (PA6)

* External DC fuse is required

Maximum number of drivers on automatic circuit breakers

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