

LEDSava®

VP Mains Variable LED Dimmer Control System



LEDSava® - Mains Variable LED Dimmer Control System

P/N: VLDCS14

Features:

The VP LEDSava® Mains Variable LED Dimmer Control System (VLDCS14) is a self contained power supply and driver for any type of LED light unit up to a maximum power of 14 Watts (LED Load). This self contained unit can be connected to most off-the-shelf dimmer boxes to enable any single or connected group of LED or downlighter lighting units to be powered and dimmed.

This LEDSava® has the benefit of:

- Low Cost.
- Excellent performance and reliability.
- Small physical size.
- Low heat output.

Technical Overview:

The LEDSava® is suitable for driving lighting systems with various power requirements, including LED retro-fit lamps, LED modules, LED spots, down-lights, and LED strings for retail displays.

The LEDSava® is fully compatible with current lighting infrastructures and can operate directly from rectified mains power or in combination with a phase-control dimmer. The LEDSava® includes a high-voltage power switch and can start up directly from the rectified mains voltage, so no external start-up circuit is necessary.

To support its dimming capabilities the LEDSava® contains two integrated high voltage switches for bleeder operation and an input that can be used to sense lamp power consumption and activate additional bleeder action when needed.



Vanguards Power (Hong Kong) LTD.

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To support its dimming capabilities the LEDSave® contains two integrated high voltage switches for bleeder operation and an input that can be used to sense lamp power consumption and activate additional bleeder action when needed.

The LEDSave® has in-built circuitry to reduce capacitive switch-on losses and optimise valley switching efficiencies for improved effectiveness at low power levels. The LEDSave® uses duty cycle control and frequency control to adjust the LED brightness. The combination of these two methods produces a dimming curve similar to that of an incandescent lamp and reduces peak current levels.

Specifications:

Part I: Mains Dimming LED Driver	
AC line input voltage:	120/60Hz ± 10 % variation 230/60Hz ± 10 % variation
Output voltage on LED:	9 V (DC) to 23 V (DC)
Output voltage protection:	25 V (DC)
Output current on LED:	400 mA to 700 mA
Current ripple:	+/-50 mA at 500 mA
Maximum output power (LED Power):	14 W at Vout + 21 V
Efficiency:	70 %-78% at tabm= 25°C
Power Factor:	≥0.85
Dimming range:	100% – 0%
Operating temperature:	-20 to 50 ° C
Multiple driver support:	Will connect multiple LED units to a single dimmer box.

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