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## Power Vector - Dimmable LED Power and Drivers

Power Vector: Energy Efficient LED Power and Dimming Solutions (CE/UL)

**Power Vector has developed a series of highly efficient, agency approved (CE, UL Listed), dimmable LED power supplies for architectural general illumination and street lighting applications. Power Vector's '3-in-1' approach combines a power supply, dimming interface and LED current drivers into one cohesive system. This system approach is focused on total cost of ownership as defined by price per LED, optimization of wiring on installation and operating energy savings. These benefits are further complemented by a simplified Analog dimming option (DMX is also available). The Trinity series is capable of driving up to 12 channels of multiple high power LEDs, 350mA to 1.5A, up to 144 LEDs. Power Vector 'Street Light' dimmable LED power supplies can drive up to 42 LEDs per channel on four channels for a total capacity of 168 LEDs.**

Power Vector (PV) has leveraged 25 years of power supply experience to develop a family of highly efficient, fully digital, dimmable power supplies for architectural general illumination and street lighting applications. These supplies combine three of the critical elements - power, dimming and current drivers – required to effectively deliver the full benefits of an LED system into one cohesive package.

Power Vector's Trinity 6 and Trinity 12 are UL Listed and compliant to CE. These products support drive currents ranging from 350 mA to 1.4A. The development of these products reflects a **'total cost of ownership'** approach that focuses on the following factors:

- Price Per LED: Trinity 12 can drive up to 144 LEDs; Trinity 6 up to 72 LEDs.
- Simplicity: power, dimming and current drivers into one package
- Simplicity: one AC input, multiple class 2 outputs = less wiring
- Simplicity: easy interface to a 0 -10V analog dimmer (DMX also available)
- Operating efficiency (88% at 100% load, 80% at 25% load)
- Longevity: unique thermal management preserves electronic components
- Longevity: MTBF is 97,000 hours at 25° C.

The dimming performance provides a smooth transition throughout the dimming cycle with low level dimming at 0.2% (dimming contrast ratio of 500:1). Power Vector's products are utilized in diverse applications from tunnel lighting to theme park rides and are ideal for network dimming applications.

Power Vector's newest product, PV Street Light dimmable LED power supplies, can drive up to 168, 300 mA LEDs over four channels. Drive currents range from 300 mA to 500 mA. This product was designed for maintenance-free durability. The combination of a low component count and 90% energy efficiency is the foundation for the product's long life. The optional dimming interface (0 to 10 volt) provides additional opportunities for energy efficiency.



Picture: POWER VECTOR (photo of Bartle Hall)

[www.powervector.com](http://www.powervector.com)

Kansas City Missouri's Bartle Hall Ballroom, winner of multiple IALD awards. Power Vector's '3-in-1' products provided the power, control interface and constant current drivers for 361 color-changing LED luminaires tied to 930 channels.

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