

A clear perspective on clean water



UVineo

The best solution in UV Disinfection

A world of options, one leading concept



Increasing worldwide interest for Ultra Violet light disinfection systems and the continuous drive to use energy efficient solutions, have positioned the low pressure UV lamps back in the spotlight. So it's time to redefine and redesign the electronic lamp drivers for these lamps.

The quest for more energy efficient systems

The low pressure lamp technology has proven to be 2.5 to 3 times more energy efficient in their capabilities to convert electrical energy to the needed UV light, compared to medium pressure lamps. Despite the drawback of this lower efficiency, the medium pressure lamps have unsurpassed power capabilities at small dimensions. We have seen medium pressure UV lamps at 35kW used in very compact disinfection systems.

The "green quest" for more energy efficient systems has led to new low pressure lamps with power handling of 800 to 1000 Watt per (amalgam) lamp.

These lamps need new, high efficient and intelligent lamp drivers to preheat, ignite and power the lamp at various power levels.

More Flexibility

Many different types of low pressure UV lamps have been used in the disinfection market, requiring lamp drivers that will offer a broad range of electrical characteristics like lamp voltages, currents, preheat times, preheat currents and starting voltages, resulting in the same high number of different lamp driver types.

New generation lamp drivers

A totally new lamp driver design (the UVineo product range) for low pressure lamps is available now, using the latest technology for high efficient power conversion in combination with intelligent controls and communication protocols. Smart printed circuit board design allows building multiple-lamp drivers for lamp voltages of 67 V up to 220 V and power levels between 120W to 440W per lamp, all within one lamp driver platform. A single lamp design is made for lamp power rating of up to 800W. For the most commonly used lamps, their characteristics are stored within the lamp driver firmware and can be selected by the customer.



For "Plug and Play" testing of your set-up, Nedap provides special Test software and converter-cable. Just connect your lamps and your computer; select the right lamp-code for the lamp driver and you are ready to go and test it in your application.

The intelligent lamp converters are specially designed for optimal ignition, maximal dimming capabilities and allowing longer lamp cables without compromising lamp performance and life expectancy.

Also state of the art detection and protection circuits are integrated for sleeve leakage, shorts to ground and lamp End of Life effects. Without these protective circuits, these effects could damage the lamp driver.

One complete solution

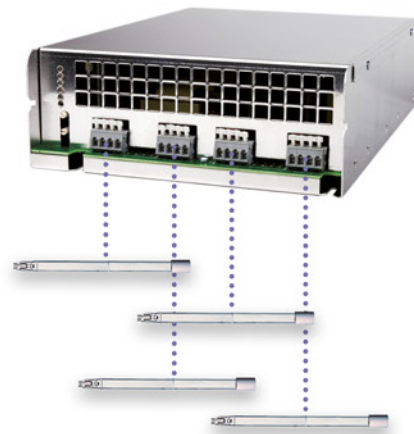
Together with the comprehensive software and communication tools, that allow full monitoring of most of the parameters, this new generation of lamp drivers will further expand the application area of the low pressure UV lamps.



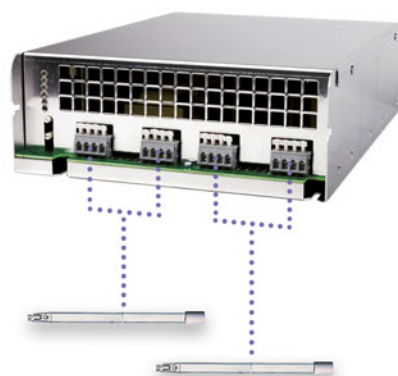
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Advantages

- Dimming capabilities, without lowering specified lamp lifetime expectations
- Allow longer distances between lamp driver and lamps
- Protect lamp driver against leakage currents, shorts to ground and End of Life (EOL) effects of lamps
- Programmed optimal preheat and starting sequence for wide range of lamp types
- Full control and monitoring of UV lamps
- Data logging
- Digital and analog controls
- High efficiency and high reliability
- Designed for optimal lamp life
- Low inrush current
- Remote on/off and dimming (PWM or 1-10 V or MODBUS)
- Easy daisy chain RJ45 control wiring
- Constant lamp power or lamp current control
- CE UL & UL approved



UVineo - Unimulti - 4 Lamps configuration (4 x 220W max.)



UVineo - Unimulti - 2 Lamps configuration (2 x 440W max.)



UVineo - 800W - 1 lamp configuration (1 x 800W)

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