

Fullcircle Electronics

Univesal Electronic Ballast (UEB)

True innovation in electronic circuit design

The Product

Fullcircle Electronics, based in Vienna, Austria/Europa is a specialist for power electronics design, offering state-of-the-art innovations for various electronic applications. For our latest design we are looking for a production and/or distribution partner for the US/North American market.

With the new Fullcircle Electronics Universal Electronic Ballast (UEB) your company could be the first to offer an exceptional new product outside of Europe. Outperforming every conventional and electronic ballast design available on the world market, the UEB is a future proof high-end solution for the lighting industry.

The Fullcircle UEB unit drives all HPS/HID lamps with a nominal power of 250, 400 and 600W using a simple adjustment (DIP switch). Additionally it allows to vary the light output by +/- 20% using a 16-step switch for overloading/dimming or running lamps with non-standard rating.

The use of modern semiconductors and advanced digital circuit design save up to 40% of energy input and increase lamp lifetime by 50%. The UEB is 15% more efficient than the Lumatek ballast and 20%-25% more efficient than other electronic ballasts.

A weight reduction by 80-90% compared to conventional magnetic ballasts makes the product easy to install and maintain.

The universal usability of Fullcircle Electronics UEB allows users to be much more flexible in the construction/installation of their industrial lighting setups. If demands change in the future, the UEB can easily be switched to run new/different types of lamps. Big savings in transport/packaging/storage costs are another positive economical aspect.

We found that many competition products would not even come close to the lifetime of conventional ballast. The UEB is designed so carefully that it will be the first digital ballast to survive all other electronic ballasts!

The UEB allows producers to offer a modern high-end product that is capable of taking market leadership within a few years.

And it allows distributors to sell a product that will not produce a large number of warranty claims.

Summary

- Only one unit suitable for all HPS/HID Lamps with a nominal power of 250/400/600W
- 16 adjustable power levels (+/- 20% of nominal power) for inetuning/overloading/dimming or running lamps with non-standard rating
- Highest efficiency of all ballasts available: 15%-25% less power required compared to other electronic ballasts (like Lumatek) 30%-40% less power required compared to conventional ballasts
- Probably the only design that really complies with all EMC regulations in your country.
- Increased lamp lifetime (up to 50% longer)
- Low Weight:
PCB only: 600g/21.16oz/1.32lb
PCB + components:2.6 kg/91.71 oz/5.73 lb
- Maximum length of cable between ballast and lamp: 2m/78.74 inch
- Built-in soft starter
- Overcurrent protection
- Thermal protection (will turn off at 85°C/185°F)
- Input Voltage:
80V-150V AC 45Hz-65Hz (US version),
170V-250V AC 45Hz-65Hz (EU version)

