



Empower Electronics

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Tomorrow's Lighting Technology Today



Empower Electronics

Headquartered in San Diego, California and with programming, product development and manufacturing facilities in Thailand and San Diego, Empower Electronics combines cutting-edge technological skills and a pragmatic approach to developing lighting controls that save energy and optimize the performance of our customers' lamps and fixtures.

Our products serve a wide spectrum of industries and applications including retail, manufacturing, auto dealerships, streets and highways, garage and parking facilities and construction.



Empower HID ballasts...the right choice

Facility Managers

Increase energy efficiency and light quality while lowering operating costs with Empower retrofit digital ballast kits. Compatible with most lamps, they are the ideal energy-saving solution for facilities wanting to avoid the expense of replacing existing fixtures.

For facilities installing new lighting fixtures, insist your fixture provider uses Empower's programmable digital ballasts to save you up to 60% on lifetime fixture maintenance and operating costs. You'll use less energy because, with better lumen-per-watt performance (efficacy) and reduced lumen depreciation, there is no need to over-specify initial lamp wattage to achieve the desired consistent amount of light.

Original Equipment Manufacturers

Providing the highest quality of light with the lowest lifetime cost-of-operation is the standard requirement facing fixture manufacturers. Driving your fixtures' HID lamps with Empower's energy efficient digital ballasts provides a higher Color Rendering Index (CRI), reduced lumen depreciation and superior efficacy. Your customers will appreciate the added benefits provided by Empower digital ballasts.

Architects and Engineers

Empower's skilled lighting professionals have combined breakthrough technology with real-world economics to perfect programmable digital ballasts of unmatched quality and performance. We would welcome the opportunity to discuss how our lighting products can enhance your project.



Patent-Pending Technology

The Problem

Magnetic ballasts provide a low power factor and waste significant energy in driving HID lighting. They use a low frequency signal that produces lamp flicker and accelerates electrode decomposition, discharging material that blackens the interior of the lamp. The result is a continuously reduced amount of light, called lumen depreciation. To compensate, designers usually over-specify initial lamp wattages, resulting in excessive energy usage and increased operating costs.

The Solution

Empower Electronics' patent-pending ballast technology utilizes microcomputer-based monitoring and software control algorithms to ignite and control the operation of metal halide and high pressure sodium HID lighting. Operating at higher, more efficient frequencies to control power to the electrodes, our ballasts reduce energy consumption while minimizing lamp damage that leads to lumen depreciation.

Empower programmable digital ballasts are factory programmed to meet the voltage, wattage and frequency requirements of each lamp for which they are intended. Reduced lumen depreciation and electrode wear mean lamps will last up to 50% longer.

Depending on the type of lamp used, light levels required and the use of Empower's programmable dimming capabilities, operating costs can be reduced by as much as 60%.



Greater energy efficiency, more cost savings, better light quality...that's the Empower promise!

Exceptional Efficiency

Compared to magnetic ballasts, Empower's environmentally friendly electronic ballasts provide dramatically reduced energy consumption, up to 60%!

Unmatched Lumen Stability

Because they dramatically reduce lamp lumen depreciation, Empower digital ballasts deliver higher and more consistent light levels as your lamps age – while consuming less energy. With Empower ballasts, lamp lumen output is maintained at a higher, more consistent level.

Reduced Maintenance

Our programmable digital ballasts produce less electrode degradation and help lamps last 50% longer! Replace lamps less often and reduce your operating costs.

Superior Dimming Control

Programmable digital ballasts from Empower offer an integrated dimming capability or can be used with external third party dimming controls to adjust the light level to the exact amount needed. Lowering the wattage saves energy and money!

Measurably Better Quality Light

Empower digital ballasts produce a higher CRI than systems utilizing magnetic ballasts, resulting in increased visual processing speeds for improved night safety.

Empower...products for every application

Empower's programmable digital ballasts are configured to optimize the performance of metal halide and high pressure sodium lamps operating at 120 to 277 volts and 150 to 1000 watts.

Our retrofit installation kits are designed to quickly replace magnetic ballasts with our cost-efficient digital ballasts. Most retrofit installations will experience savings that repay the initial investment, including labor, in about one year.

