

the E-Series



Energy saving lighting controls for HID and fluorescent lights

ENVIRONMENTALLY SOUND:

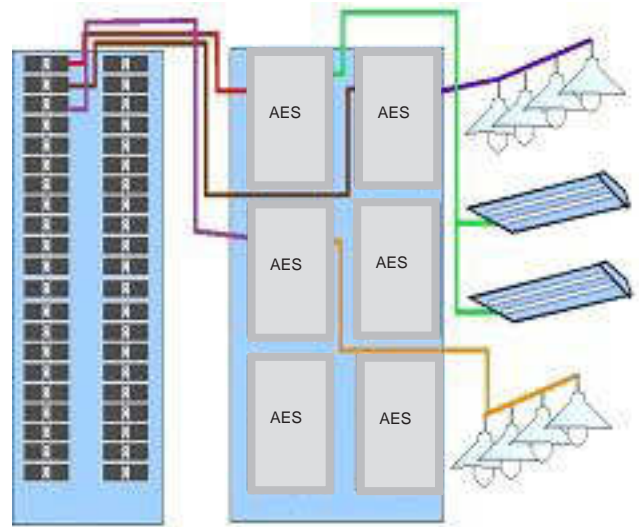
- Reduces energy consumption of existing lighting systems 10% to 36% (optimal setting 20% to 25%)
- Extends lamp life by up to 40% and ballast life up to 200% reducing the stress on our landfills
- RoHS compliant and 95% recyclable by weight

SAFETY:

- Longer lamp life means fewer maintenance calls
- Maintains mean lumen output at or above rated specifications longer than uncontrolled lamps
- Virtually maintenance-free

VERSATILE:

- Designed to work with a wide variety of HID lamps including low and high pressure sodium, metal-halide, mercury vapor, pulse start, etc.
- Works on all magnetic ballasted, and passive-input electronic ballasted HID lamps - no need to R&R working fixtures



Active ES Lighting Controls, the leading innovator of energy saving controls for HID and fluorescent lighting, has developed patented technology that is not available from any other source. The **E-Series** Lighting Controls are designed to **reduce your lighting energy consumption and associated energy byproducts by up to 36%**.

The **E-Series** patented energy-saving lighting controls provide an upgrade to existing and new facilities by emulating an Active Ballast for HID and fluorescent lamps at the circuit breaker level.

The controls are designed for use with HID lamps such as high and low-pressure sodium, metal-halide, pulse-start, and mercury vapor, as well as fluorescent or any combination of the above.

The controls are designed to supply full power for a period of time to allow the lamps to fully warm up and achieve full brightness, then they automatically reduce the power supplied to the lamps, saving energy and extending lamp and ballast life.

The controls use six power saving settings to reduce the power consumed by existing commercial and industrial lighting systems by the amount you request, up to 36%.

The controls can actually improve mean-lumen output over time (at 20% savings setting or less), delaying Lamp-Lumen Depreciation (LLD) and extending the lamp life.

The **E-Series** helps the environment: the dramatic reduction of energy usage means reduced power generation and less greenhouse gases.

In addition, the product is RoHS compliant, is reusable and re-installable, and over 95% of the mass can be recycled.

E-Series modules are arranged in a standard NEMA enclosure for easy and versatile installation.

There is simply no more economical way to achieve the dramatic energy savings that accrue with the **E-Series** lighting power controls.

Application

Municipalities

Parking Structures and Lots
Street Lights
City Yards

Industrial and Commercial

Shopping Malls
Commercial Centers/Industrial Parks
Self-Storage Facilities
Warehouse/Distribution Centers
Outdoor Advertising Structures

Entertainment Facilities

Casinos
Convention Centers
Sporting Arenas

Transportation

Bus and Train Depots
Airports, Shipping Yards
Automobile Dealerships
Fuel Distribution/Retailers
Gas Stations



Installation

The **E-Series** is engineered to be simple to install and use. It is installed between the lighting service panel and the lighting loads. It is completely self-contained requiring no outside components or elaborate installation procedures. In most cases, simply mount the unit either on the wall or on the floor, disconnect the circuit breakers on the load side, connect the load side of the circuit breaker to the appropriate power control module (line connector), and then connect the load wires to the Load 1 connector on the power control. Repeat this process for each light circuit. Once installed, operation is completely automatic and requires no outside intervention of any type. The savings begin almost immediately.



Specifications

For USA:

Models:	Weight:
20amp/120volt	11.5 lbs
30amp/120volt	14.5 lbs
20amp/277volt	13.5 lbs
30amp/277volt	18.5 lbs
20amp/347volt	18.0 lbs

For Canada:

Dimensions:

L 7.0 in., W 7.0 in., D 5.5 in. (all models)

Input Frequency:

60 Hz (US and Canadian versions)

Input Voltage:

(Model dependant) 120v Y 208v;
120v/240v; 277v Y 480v; 347v Y 600v
All connections Line to Neutral

Input Current:

20a/120v & 20a/277v: 16.4 Amps
30a/120v & 30a/277v: 25 Amps

Operating Environment:

0° to +130° F; 0 - 90% humidity,
non-condensing.

Features:

- New modular design allows installation of just the number of units required and allows for easy additions as needed
- Selectable 3 min. for fluorescent or 16 min. for HID stabilizing time
- 6 savings settings, hardwired
- 5 VDC reset signal acceptance
- 1/2 cycle (8.3ms) line voltage detection to reset ignition mode per ANSI guidelines.
- RoHS (Restriction of Hazardous Substances) compliant
- Modules are 95% recyclable
- All metal parts are either painted or plated to provide corrosion resistance
- Constructed in accordance with NEMA, NEC guidelines and UL (Underwriters Laboratories) listed

Savings Settings:

1. 28 - 36%
 2. 24 - 28%
 3. 20 - 25%
 4. 16 - 22%
 5. 14 - 18%
 6. 10 - 14%
- (Savings depends on environment)

Listings:

UL, CSA, Temperature Class B (130 C)
File #E253753 UL916, UL508, CSA 205.
Maximum temperature rise after 24 hours
continuous operation at full load 75c at
40c ambient.

Standards:

NEMA, NEC, ANSI, ASTM, RoHS

Required Enclosures:

NEMA 1 or NEMA 3 hinged door. Volume per module: 1,536 cu. in.

1 Module: Wiegmann P/N N416128 16 in. X 12 in. X 8 in.

3 Modules: Hoffman P/N A24R248HCR, Fan P/N A4AXFN, Shroud P/N T4S3R, Baffle P/N 24248

6 Modules: Hoffman P/N A30R3012HCR, Fan P/N A6AXFN, Shroud P/N T6S3R, Baffle P/N 363012

9 Modules: Hoffman P/N A36R3012HCR, Fan P/N A6AXFN, Shroud P/N T6S3R, Baffle P/N 363012

Enclosures may be wall, floor or strut mounted.