

# Pulse Start MH & EISA At a Glance

Energy Independence and Security Act of 2007

What does EISA mean to us?



## When

EISA is setting efficiency standards for metal halide (MH) luminaires, from 150w to 500w, produced on or after **January 1, 2009**.

## EISA Requirements

EISA legislation sets the following efficiency standards:

- 88% minimum efficiency for a pulse start ballast
- 94% minimum efficiency for a magnetic probe start ballast

For a non-pulse start electronic ballast—

- 92% minimum ballast efficiency for wattages > 250 watts
- 90% minimum ballast efficiency for wattages ≤ 250 watts

## Our Commitment

We are adding EISA-compliant pulse start wattages to all applicable families of products, if they do not already exist. All new wattages will be available by the end of the year. We will continue to update our brand websites with the latest energy-saving pulse start technology products, marked with our “Powered by Pulse Start” trademarked logo.



## Energy Advantage of Pulse Start technology

Pulse Start technology provides an ENERGY ADVANTAGE

- You can use lower wattage pulse start fixtures for equivalent lumen output of higher wattage traditional probe start fixtures:
  - 350w or 320w pulse start fixtures can replace standard 400w probe start fixtures
  - 150w pulse start fixtures can replace standard 175w probe start fixtures

## Exceptions

EISA allows for exemption of 150W wet location fixtures from the efficiency standard. Therefore we will discontinue production of wet location 175W probe start fixtures by the end of the year, and will replace with 150W pulse start fixtures for energy savings, with an increase in maintained lumens in most cases!!

## What Happens to Probe-Start

Manufacturers and Distributors may legally sell probe start MH luminaires (produced before Jan 1, 2009) for as long as their inventories last. Ballast manufacturers may continue to produce probe start ballasts, so field replacement ballast and lamp business will not be impacted.

## Probe Start vs. Pulse Start Comparison

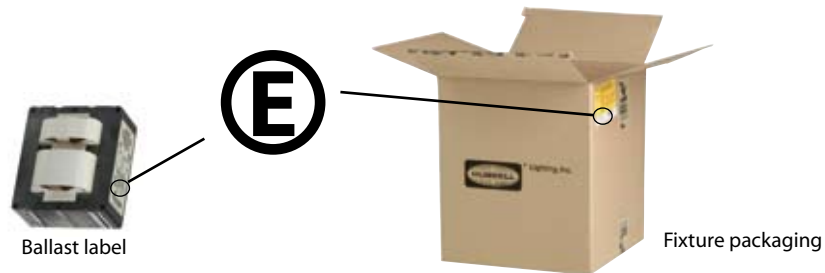
Probe Start				EISA Compliant Pulse Start			
Watts	Mean Lumens*	Life	Watts	Watts	Mean Lumens*	Life	Watts
175	9,100	10,000	210	150	10,500	15,000	185
				175	11,200	15,000	198
250	13,500	10,000	295	200	16,800	15,000	277
				250	16,625	15,000	291
400	24,000	20,000	458	320	21,000	20,000	361
				350	25,200	20,000	397
				400	29,820	20,000	452

\*Based on Phillips lamp data, except 200W Pulse Start, which is based on Venture lamp data

## EISA Labeling Example

The EISA legislation also defines labeling requirements that allow field identification of EISA-compliant MH fixtures. Both the ballast and the fixture packaging shall be marked with a capital letter E printed within a circle, as depicted below.

Labeling example



## EISA Legislation

### Energy Independence & Security Act of 2007

Public Law 110-140-Dec. 19, 2007

#### Sec. 324. Metal Halide Lamp Fixtures

Metal halide lamp fixtures, from 150w to 500w, produced on or after Jan 1, 2009, shall contain a ballast with the following minimum efficiency level-

- (i) 88% for Pulse Start MH ballasts
- (ii) 94% for Magnetic Probe Start MH ballasts
- (iii) For Non-Pulse Start electronic ballasts-
  - (I) 92% for > 250w
  - (II) 90% for ≤ 250w

**EXCLUSIONS.**-The efficiency standards do not apply to-

- (i) fixtures with regulated lag ballasts;
- (ii) fixtures that use electronic ballasts that operate at 480 volts; or
- (iii) fixtures that-
  - (I) are rated only for 150 watt lamps; (II) are rated for use in wet locations per NEC 202, section 410.4 CA); and (III) contain a ballast that is rated to operate at ambient air temperatures above 50°C, as specified by UL 1029-2001.

**LABELING.**-The rules shall provide that any metal halide lamp fixture manufactured on or after January 1, 2009, shall contain a capital letter 'E' printed within a circle on the packaging of the fixture, and on the ballast contained in the fixture.

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