

Electronic Ballast

PES120HPT8-2

Instant Start

For use with:
One (1) or Two (2) F17T8, F25T8, F32T8

- For Use on 120V Line
- Energy Savings
- Longer Lamp Life
- Noise Free Operation
- Optimum Reliability
- Compact, Low Profile Design



Model PES 120HPT8-2

Uses an electronic technology with the state of the art semiconductors resulting in an ENERGY SAVING electronic ballast for TWO F32T8 lamps. When compared to conventional magnetic ballast, this ballast can accomplish up to 25% in energy savings.

High Power Factor & Low THD Performance

The PES120HPT8-2 designed to provide HIGH power factor [> 0.98] and LOW THD [$< 10\%$] for 120 VAC utility lines. This feature helps the utility companies to distribute noise free and reliable power to equipments. The reliability and superior performance and lamp long life is achieved by allowing low operating stresses and high temperature rating.

Noise Free Operation

The microelectronics system design provides a NOISE FREE and quiet ballast performance. Higher frequency operation enhances the light output for the same power level, compare with standard magnetic ballasts 60Hz noisy and power inefficiency operation.

Electromagnetic Interference (EMI)

The PES120HPT8-2 ballast consists of AC line filters to suppress high frequency noise feeding into AC power lines. The ballast filtering has been designed to comply with the latest FCC Consumer B requirements for residential and commercial applications.

Testing and Reliability

The PES120HPT8-2 design is tested rigorously for long life and reliability. PES120HPT8-2 has been tested through continuous cycling. It has successfully completed 50,000 cycles of operation with TWO F32T8 lamps. The ballast design has been further tested at 50°C ambient in a chamber for long periods. The ballast has also been tested in simulated ceiling fixtures at worst case conditions for extended periods while monitoring component temperature limits for all components.

Case Size & Installation

Mechanical dimensions and case size are smaller than standard ballast in the market. Suitable for retrofitting and new installations.



Power Electronics & Systems, Inc.
2790 Skypark Drive Suite 110
Torrance, CA 90505 USA
Phone: (310) 626-6222
Fax: (310) 626-6224
pesystem@earthlink.net
www.poweres.com



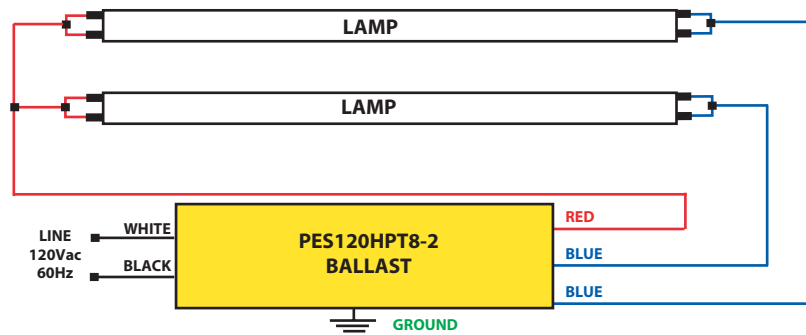
PERFORMANCE COMPARISON

PERFORMANCE PARAMETER	MAGNETIC BALLAST*	PES120HPT8-2 BALLAST**
Input Power (Watts)	70 W	60 W
Lamp Voltage Waveform	Distorted Waveform	Sinewave
Power Factor	0.5 (typical)	> 0.98
Harmonic Distortion (@ 60Hz)		
3rd Harmonic	< 15%	< 3%
Total Harmonic (THD)	< 30%	< 10%
Mode of Operation	Series	Parallel
Crest Factor	< 2.0	< 1.7
Flicker	< 30%	< 1%
Sound Quality	Noisy	Quiet (Sound Rating A)
Energy Saving	None	Up to 25%

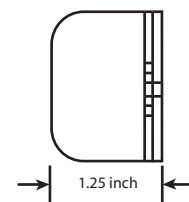
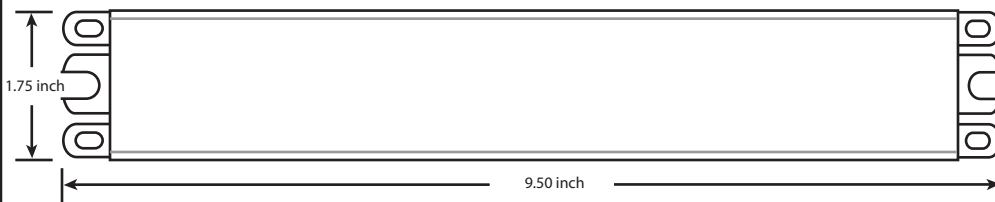
* Standard Magnetic Ballast Using TWO F40T12 Lamps

** PES120HPT8-2 Electronic ballast Using TWO F32T8 Lamps

CONNECTION DIAGRAM



MECHANICAL DIMENSIONS



Power Electronics & Systems, Inc.
 2790 Skypark Drive Suite 110
 Torrance, CA 90505 USA
 Phone: (310) 626-6222
 Fax: (310) 626-6224
 pesystem@earthlink.net
 www.poweres.com