PowerSpec HDF
High Performance
Fluorescent Dimming Ballasts
Unlimited flexibility. Precise control.

Fluorescent dimming ballasts give designers the ability to use energy-efficient fluorescent lighting in a variety of applications. But ballast size and compatibility issues have limited its use in some spaces. Until now.

Introducing Lightolier Controls’ reengineered high-performance, PowerSpec HDF Fluorescent Dimming Ballasts. The ballasts provide designers more flexibility and control options including lower dimming levels, universal voltage, smooth flicker-free operation and fewer part numbers to specify. Now creating your ideal lighting design is easier than ever before.

Big performance in a small package.

The new Lightolier PowerSpec HDF Ballast features a slimmer profile for use within smaller, more architecturally sensitive fixtures. In addition, its dimming range – down to 1%* – makes it ideal for multipurpose rooms such as audio/video conference rooms, commercial social spaces, or dining areas. Hospitals can take advantage of the ballast’s ability to create bright light during doctors’ exams and dim to low light while patients rest.

You also get more performance options from each ballast, to simplify your specification. The PowerSpec HDF Ballast family provides more than 80 lamp/wattage combinations from a mere 16 PowerSpec HDF Ballast part numbers, for unprecedented flexibility and ease of design. And Lightolier Controls PowerSpec HDF Ballasts are compatible with a full range of Lightolier dimming controls, from simple wall dimmers to sophisticated dimming systems.

* Consult the PowerSpec HDF data sheet for specific ballast specifications
The right light for better sight.

Subtle lighting control is important in our ability to see clearly as we change tasks. Since our pupils expand in response to low light, allowing more light to enter the eye, we perceive the light level as being brighter than it actually is. In a conference room, for example, the most comfortable balance of light would be bright enough to read and write easily, yet dark enough to clearly see a projected presentation.

With Lightolier Controls PowerSpec HDF Ballasts, designers now have the flexibility to use fluorescent lights in situations that require varying light levels. Instead of choosing between visual performance and energy efficiency, Lightolier Controls gives you the best of both worlds.

One-stop dimming solutions

Choose from simple to sophisticated controls which include: stand alone slide dimmers, digital dimmers, home automation systems, distributed dimming systems, dimming interfaces, and high density dimmer rack systems. For more information on the Lightolier Controls PowerSpec HDF High Performance Fluorescent Dimming Ballast or any of our lighting control solutions, visit our Web site at www.lolcontrols.com

PowerSpec HDF Ballasts at a glance.

- Smaller, slimmer profile
  - Smaller fixtures
  - Flexible fixture configuration – 1, 2, 3, 4 lamps
- Wide selection of lamp/wattage combinations
- Enhanced dimming range – 100% - 1%*
- Standard Universal voltage – 120/277
- Simplified design and engineering
  - Fewer HDF Ballast part numbers
  - Facilitate on site changes when necessary
- Standard 3-wire line voltage wiring configuration
- Greater compatibility
  - Wall dimmers to full dimming systems
  - Lamps, including T8, T5, TTT, QT, Bi-Tube U-Shaped, Circle Shaped

LIGHTOLIER CONTROLS
www.lolcontrols.com
### Features
- Multiple lamp types/voltages
- Full Range Dimming
- Constant Lumen Output*
- Low Harmonic Distortion
- High Ballast and Power Factor
- Proprietary Feedback Circuit
- Lamp fault interruption circuit

### Benefits
- Ease of design, on site changes
- Wide range of applications
- 100% - 1%, ±10% of line voltage**
- Minimizes power issues on the neutral conductors
- Efficient power and system operation
- Flicker free operation
- Protects lamps and ballasts

### General Specifications
PowerSpec HDF Fluorescent Dimming Ballasts provide high performance, full range dimming of linear and compact fluorescent light sources and are ideal for aesthetic and architectural dimming in residential and commercial spaces, as well as energy-oriented applications.

PowerSpec HDF Ballasts incorporate stringent quality assurance including robust electronic components, protective circuitry, surge protection, and testing/calibration. The PowerSpec HDF Ballast achieves its outstanding performance by incorporating a unique electronic feedback circuit. This circuit monitors the lamp performance and continuously corrects the current input and cathode voltage to achieve consistent, smooth, flicker-free operation. In addition, they are protected by Lightolier’s exclusive, single-source three-year warranty, which covers the Dimming Controls, PowerSpec HDF Ballasts, and Lightolier fixtures.

PowerSpec HDF Ballasts dim linear T8 and T5 fluorescent lamps smoothly and continuously to 1% of full lumen output, compact T5 and T4 fluorescent lamps smoothly and continuous to 3% of full lumen output. While in operation there is no perceived difference between the light levels of one- and two-lamp ballasts for the same type of lamp. The system consists of Lightolier PowerSpec HDF electronic dimming ballasts, an interface (where applicable), and controls, all connected by standard three-conductor line voltage wiring (hot, neutral, and signal within the same conduit).

PowerSpec HDF Ballasts turn on to any set intensity, even absolute low, therefore making the system perfectly suited to preset dimming controls. PowerSpec HDF Ballasts also feature a softstart circuit that prolongs lamp life. All T4 and T5 ballasts contain a Lightolier Controls lamp fault interrupter circuit that helps prevent overheating or abnormal end of lamp life conditions. All PowerSpec HDF ballasts are U.L. and CSA-listed for both 120V & 277V, 50Hz or 60Hz, and comply with FCC Part 18C guidelines.

### NOTES
1. The apparent lamp color temperature shifts cooler as fluorescent dims
2. Lightolier Controls recommends that fluorescent lamps be aged up to 100 hours before dimming to ensure optimal performance.
3. Dimming Range: As low as 1% or 3% measured lamp lumen output. Dimming range performance may vary based on voltage to the ballast, ambient temperature, initial lamp burn in, and lamp life used/remaining.
4. Ballast should not be mounted in a remote location from the fixture.
5. You should not mix different fluorescent sources (T8, T5, and T4) on the same PowerSpec HDF Dimmer.
6. It is acceptable to mix different wattage of the same source (e.g., 3’ and 4’ T8 and 1-or-2 lamp ballasts) on the same dimmer.
7. All T8 ballasts will operate 6” and 1 5/8” U-Shaped lamps
8. Do not shorten or lengthen the ballast’s wire leads.

### PowerSpec HDF Ballasts, Lamp, Wattage, Dimming Voltage

<table>
<thead>
<tr>
<th>PowerSpec HDF Ballast</th>
<th>Lamp Quantity</th>
<th>Lamp</th>
<th>Wattage</th>
<th>Dimming Range</th>
<th>Voltage</th>
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<tr>
<td>GLT242PT</td>
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<td>TTT</td>
<td>32/42</td>
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<tr>
<td>HFD332T8</td>
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<td>HFD432T8</td>
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<td>T8</td>
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<td>Circle Shape T5</td>
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<td>Linear T5 HO</td>
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