

# Ballasts

LightSources, Inc. and LightTech Lamp Technology Ltd. offer an extensive line of electronic ballasts, covering a wide range of germicidal lamps. Choosing the right



ballast is essential because the interaction of lamps and ballasts is the true determinant of system performance. As elements in electrical circuits, germicidal lamps are not “passive” but rather “active” elements. Passive elements include resistors, inductors, and capacitors. In contrast, germicidal lamps are active elements in that they generate harmonic and transient voltages and currents. Germicidal lamps exhibit a seemingly strange

characteristic – the voltage decreases with increasing current. This process is known as negative AC resistance. Gas discharge devices therefore are inherently unstable; once lit, the current increases without limit unless other circuit elements are used to restore and maintain operation. These elements are commonly called “ballasts.”

LightSources and LightTech offer ballasts that match our lamps. This is a true “systems” approach. Our series of electronic high frequency ballasts provides our clients with an optimal performance germicidal system.

Our line of ballasts delivers all of the advantages of electronic HF operation:

- **HIGH EFFICIENCY**
- **LIGHT WEIGHT**
- **SMALL SIZE**
- **HIGH POWER FACTOR**
- **INSENSITIVITY TO LINE VOLTAGE VARIATION**
- **OPERATION ON MULTIPLE SUPPLY VOLTAGES**

Our ballasts are manufactured in ISO-9002 facilities and meet IPC610 quality requirements.

## The LightSources/ LightTech Difference

*The combined strengths of LightSources in the United States and LightTech in Europe make our companies global leaders in the germicidal lamp industry. We provide our clients in the original equipment manufacturer (OEM) market with standard and customized lamps. In addition to offering all standard lamp sizes, LightSources and LightTech can custom design, engineer, and manufacture the ideal lamps to suit our clients' unique needs. This enables our clients to maintain replacement sales within the OEM market, an often untapped source of tremendous revenue and repeat business.*

*Our customized, proprietary lamps are unique to the germicidal lamp industry and one of the many reasons that clients have described LightSources and LightTech as companies where customer commitment is second to none. Whatever your needs are in terms of germicidal lamps, LightSources and LightTech have the solution.*

