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.