



- True Regenerative On-Line Design
- High Frequency Galvanic Isolation
- Built-in Surge Protection
- Compact Size, Lightweight
- Wide Input Voltage Window
- Extended Brown-out Protection
- RS232 Contact Communications
- Generator Compatible
- Optional Wide Range Frequency Conversion

## True Regenerative On-line UPS Design

The SSG<sup>®</sup> Series is the uninterruptible power source for the user who wants the best available in power protection. If power protection is critical to operation of your equipment, the SSG<sup>®</sup> Series is the only logical choice. This advanced design delivers unparalleled operation with excellent regulation and dynamic response. The SSG<sup>®</sup> Series' regenerative On-line, sine wave system will virtually eliminate any power related down time.

Blackouts, however, are the least of the problems facing the user of today's utility power. A recent Bell Laboratories study indicates that blackouts account for less than 5% of power disturbances. The other 95% consist of surges, noise, sags, and brownouts. Equipment connected to utility power experiences an average of 128 such events each month. These events can disrupt proper operation and increase service costs.

The only design that can provide protection against *all* power problems is a true On-line sine wave UPS such as the SSG<sup>®</sup> Series. It employs a design that converts the incoming utility power to a regulated DC voltage and regenerates a completely new sine wave, AC voltage. The design incorporates high frequency galvanic isolation providing the highest level of protection against high voltage transients and network stopping common mode noise. The SSG Series eliminates all power problems including noise, harmonics, frequency shifts and phase shifts.

Because the SSG<sup>®</sup> Series is actually a solid state generator, it can also be factory configured as a frequency converter upon request, accepting input frequencies from 45 to 440Hz, while outputting crystal controlled frequencies of 50 or 60Hz.

Off-line or standby UPSs treat brownouts like blackouts, resulting in battery drain and shortened battery life. The SSG<sup>®</sup> Series continues to supply perfect power during extended brownouts without using the battery reserve. The SSG<sup>®</sup> Series is in a class of its own when real power problems arise. All equipment meets UL and CSA standards. Optional O/S shutdown software is available for supporting all major networking systems.

### Applications:

Where ever common mode noise, harmonics, frequency & phase shifts are a problem and an isolation transformer is needed:

- Networking applications using hubs, modems, routers or other outside communication devices
- Test equipment applications
- Sensitive medical and lab equipment
- Locations with poor or missing ground systems
- Locations with large power requirements that internally generate noise and spikes, which may damage your electric equipment

If your equipment is sensitive to high voltage transients and/or lightning strikes, you don't want a path left open to your electronics, which is what happens with many other UPSs.

The SSG500 with galvanic transformer isolation eliminates common mode and high frequency noises by totally isolating your equipment from these transient sources.

