

Powering the performance of gaming equipment



Innovolt provides next-generation power protection to vulnerable slots and other electronic casino devices

| BY BEN GRIMES, CTO, INNOVOLT

We are fortunate to live in a country where reliable power is the norm. However “always-on” power doesn’t always equate to clean power and our electrical system, which was built on technology primarily from the 1960s and 1970s, remains severely antiquated while our daily technology advances every year.

For example, take a look at slot machine technology which has gotten highly sophisticated since its inception back in the late 1800s. Slots have evolved from simple mechanical devices to complex computers that are plagued by seemingly unexplained performance issues—all of which negatively impact business through lost revenue, increased gaming operation costs and decreased customer satisfaction.

What most operators don’t consider is the root of the problem in most cases is bad power and it is costing them. In fact, a recent 2013 gaming industry survey found that, on average, a casino with 1,000 slot machines:

- Experiences over 1,500 on-site fixes each year;
- Loses potentially \$456,000-\$576,000 each year from equipment issues;
- Spends an average of \$650,000 on support; and
- Has 120 slot machines to accommodate for peak-hour breakdowns.

OUR VULNERABLE STATE

The truth is that today’s sensitive electronics have a low tolerance to voltage level fluctuations and traditional surge protectors and uninterruptable power supplies (UPS) do not guard against the vast majority of power events attacking slot games. Of power-related events that damage electronics, less than one-half of 1 percent are caused by voltage surges and spikes, and a small percentage of failures actually result from power outages themselves. These daily disturbances include a complex array of voltage sags, brown outs, overvoltages, power outages and voltage surges and spikes. No two disturbances are the same, and a single event or events overtime can be catastrophic to the lifespan and reliability of electronics. Even a minor voltage fluctuation can cause resets, component failures, NFF issues and loss of network connectivity.

Innovolt recently began partnering with casino operators to study the power disturbances impacting the performance of slot games. After several months of monitoring and remediating against these voltage fluctuations, the data collected indicated that sags and brownouts are the most common disturbance at the slot bank level. Most importantly, it was found that the Innovolt technology was successful in significantly decreasing service issues and greatly improved the uptime of slot games.

RE-EVALUATING PROTECTION NEEDS

Backed by more than 25 years of scientific research, Innovolt’s offering provides quantifiable results that are proven to increase the reliability of gaming equipment and reduce the total cost of ownership by proactively preventing equipment performance issues at the outlet before they negatively impact business.

The technology is accessible to, and effective for all gaming electronic equipment, regardless of size. For the first time, there is a holistic and intelligent approach to managing electronics, resulting in equipment that performs better, lasts longer and requires fewer service calls.

Do you have a holistic and intelligent approach to managing your electronics? Are you prepared for daily power disturbances that have damaging effects to your equipment? By utilizing technology that manages and reports on power disturbances, slot game manufacturers and casino operators can extend the life of their equipment, resulting in improved product reliability and service-cost reductions. 🌐

Ben Grimes serves as Innovolt’s chief technology officer. Innovolt intelligently protects and manages the productivity and usable life of the technology that powers today’s digital world. For more information, visit www.innovolt.com.