



**Catastrophe?
Not On Your Watch.**

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Optimize Your Control

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At the End of the Day Depend on SENS

August 14, 2003: 50 million people in the United States and Canada lost power in a massive black-out covering 9,300 square miles. Financial losses were estimated at over 6 billion US Dollars. Such blackouts would be common if not for automatic controls distributed throughout the power grid. SENS products power many of these controls.

Since 1971 we've been designing and manufacturing **industrial-strength DC power systems and utility-grade battery chargers** that deliver non-stop, round-the-clock power to critical industrial controls in the midst of unpredictable and potentially catastrophic AC power disruptions.

Today, some of the best-known oil and gas providers, utilities, data centers, hospitals and government operations, such as air traffic control, depend on tens of thousands of SENS products to keep electric power, information, transportation and industrial processes from failing due to lack of power.

You can depend on SENS too. ➤

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black box data recorder and Insight data analysis software alert users to battery problems early, and enable them to find hard-to-spot site problems. The result: EnerGenius IQ is the most cost-effective DC power, charging and battery failure detection product available.

Industry accolades have been swift: *Battery Power Products and Technology* recognized EnerGenius IQ with the **Innova Award for Best Technology of 2007** presented to the product

with “the technology that has the most promise of impacting and improving the power industry.”

SENS: Protection Against Power Failure

When the critical mission of your business depends on non-stop power, when you can't afford infrastructure failure, call SENS. GE and Caterpillar do. So do the FAA, US Department of Energy and every branch of the US military. Our energy protects your business. 

SENS: The Power Behind the Power

FOR OVER 35 YEARS SENS HAS DESIGNED and manufactured ultra-reliable DC power systems and utility-grade battery chargers. Today our products are trusted components of the energy infrastructure on every continent of the globe—even Antarctica.

What makes SENS different? Our end-to-end total system approach to reliability and our reputation for delivering rock-solid, class-leading battery system dependability.

Dead or weak batteries have always been the leading cause of backup power system failure. Because of that, we built our business around maximizing battery reliability, and cost-effectively detecting bad batteries early—*before* they cause a problem.

SENS Technologies Bring Out the Best in Batteries

Since our beginning in 1971 we've based our business on knowing batteries inside and out. We've factored their inherent sensitivity to temperature, over- and undercharging and age deterioration into our charging algorithms. SENS was the first—and remains the best—at applying electronic control technologies to meet

the always changing, real-time needs of industrial storage batteries.

Our innovative, first-to-market technologies include automatic temperature compensation, fully automatic fast charging algorithms and cost-effective DC system alarms. Standard on SENS charger features for years, these innovations in some cases increase battery service life more than 400% over conventional battery chargers.

SENS On-Board Battery Fault Detection and Information

In 2002, continuing our commitment to innovation, SENS introduced an industry breakthrough: Battery fault detection technology embedded within our EnerGenius® battery charger.

The result: Thousands of installed EnerGenius® chargers with remote battery anomaly reporting capabilities have reduced the frequency of backup generator failure due to battery problems.

Introduced in 2006, EnerGenius IQ is the newest member of the EnerGenius® family. Its user-programmable battery check system,



SENS: People Meeting Commitments

At SENS we apply ourselves with high energy to meet customer expectations and deadlines. Like you, we value meeting commitments, solving problems under deadline pressure and offering great value for money.

Our highly skilled work teams use an ultra-efficient production process called *Lean*. Lean enables SENS to offer consistently short lead times while making five times as many assembly inspections as the norm. Quality is built-in during assembly and not inspected in after the fact.

Our design engineers understand the stakes in your business, and go to great lengths to create the tough technology products you need. To ensure our products deliver long-life operation under difficult operating conditions we torture-test prototypes for thousands of power cycles. And we deliberately push them beyond design limits to find, then fix, what breaks.

The result is outstanding: SENS EnerGenius® chargers offer an industry-leading 1.5 million hour observed MTBF (Mean Time Between Failure).

Bottom line: SENS DC power products can make your systems more reliable, saving you money and reducing your business risk.