



# POWERconnect

When Your Credibility Depends On It – Connect With Us

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## Industrial Generators More Customizable, Easier to Install Thanks to CCI Improvements

In keeping with its “Customer 1st” philosophy that focuses on customers’ peace of mind by delivering a superior product and ownership experience, Generac has further improved the Customer Connection Interface (CCI) that will be incorporated into all lines of its industrial generators.

The improved CCI is the direct result of many focus groups that Generac conducted with electrical contractors, engineers and inspectors. It includes enhancements that make Generac’s already industry-leading industrial generators even more customizable and easier to install.

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CCI Improvements, continued from page 1



The CCI on a 50kW diesel-fueled generator for the telecom industry. Key to making installation as easy as possible was the repositioning of the circuit breakers (1) to provide more room for cable regrouping, and to allow the cables to run straight into the breaker bays.

The first goal in improving the CCI was to make the generator as easy as possible for electrical contractors to wire. To achieve this, the generator breakers were elevated to provide more room for cable regrouping. The breakers were also repositioned to allow cables to run straight into the breaker bays, and for connections to be made with or without gland plate conduit termination. As a result, installers can now place Generac gaseous-fueled units and those diesel units without base tanks directly over the conduit stub-up and pull all cables freely to the breakers—the easiest possible configuration.

The improved CCI also offers optional main lug connections in either of the circuit breaker bays for applications that require main lug connections (without a circuit

breaker) for easier selective coordination. Additionally, the generator can be configured with a single output breaker on one side and a set of main lug connections on the other side for easy load bank access.

The CCI improvements address updates to NEC 700.9 and UL2200, and their interpretations by inspectors. For example, some inspectors take the additional guidance in NEC 700.9 (2008) about separating emergency and non-emergency circuit breakers within a distribution panel and extend it to the separation of circuits inside a generator connection box. As a result, the CCI configuration was modified to have two physically separated breaker bays. Furthermore, because UL2200 now requires both the separation of high and low

voltage wiring within a given wire class, the CCI separates both into their own secure termination boxes. UL2200 now demands the separation of factory and field wiring, as well, so the CCI also isolates them with different terminal strips.

In addition to the connection box improvements, Generac made numerous improvements to the generator enclosures, further enhancing accessibility and durability. For example, new post-free twin doors (barn door style) create larger openings and unobstructed service access. The heavy-duty stainless steel hinges with nylon spacers are corrosion free and easier to remove. A two-point door latch system seals out water and seals in noise, and lockable turn-and-tuck stainless steel latch handles do not protrude, taking up less space and eliminating snag points. Roof panels are now interconnected eliminating the need for gaskets while providing drip- and maintenance-free roofs. RhinoCoat paint extends the life of the enclosure. Finally, dense, closed cell foam insulation with a reflective silver Mylar layer reduces noise, improves visibility, and reduces radiant heat exposure.

The improved CCI will be incorporated into all industrial power systems, including MPS, throughout 2011. For more information about the CCI improvements, [click here](#).



The improved CCI is available on all industrial power systems, including large MPS units like this 600kW unit.

## Case Study - Peak 10 Inc.

Peak 10 Inc. is a leading managed services company with world-class data centers. Its services allow companies to lower costs, improve service levels, meet regulatory requirements and increase revenue growth by maximizing internal IT resources and ensuring the security and availability of a complex technology infrastructure. The company owns and operates numerous high-performance data centers, all engineered with multiple levels of security, uninterruptible power, redundant HVAC systems, fire suppression and around-the-clock monitoring and management. Peak 10 selected Generac's Modular Power System (MPS) to provide full backup power coverage at several of its data centers in the event of an extended utility power interruption. It cited the advantages of redundancy and scalability in an MPS as key to its decision to choose Generac.

To read the full case study, [click here](#).



### Meet Peak 10 CTO Jeff Biggs at 2011 Engineering Symposium

Jeff Biggs, executive vice president and chief technology officer for Peak 10, is one of the featured speakers at the 2011 Engineering Symposium. Mr. Biggs has more than 20 years of technology and Internet management experience. Join us at the symposium to hear his presentation, "Operations and Data Center Operations: Subtle Similarities," and to discuss how Generac protects many Peak 10 facilities.

## 2011 Engineering Symposium: Knowledge You Can Use

Generac Industrial Power is gearing up for its third annual Engineering Power Symposium, scheduled for May 15-18, 2011 at the [Hyatt Regency](#) in Milwaukee, Wis.

The four-day event will cover several topics through Generac's Professional Development Seminar Series (PDSS), including Generator Sizing Pitfalls,

Paralleling Concepts & Implementation, and Understanding Generator Reliability.

Learn while you earn professional development hours (PDH) and continuing education unit (CEU) credits accredited by the Milwaukee School of Engineering.

The 2010 symposium drew more than 170 engineers from across the country.

"I would like to say well done to all who presented and organized the Engineering Symposium," said Barry Arenson, project construction manager, Motorola, Schaumburg, Ill. "This event was second to none of the seminars I've attended in my 40+ years in the industry."

For more information on how to register, please contact your local [Generac Industrial Power dealer](#).

### SAVE THE DATE

WHAT: 2011 Engineering Symposium

WHEN: May 15-18, 2011

WHERE: Hyatt Regency, Milwaukee, Wis.

WHY: Learn about trends and developments in the world of standby power



Attendees at the 2010 symposium prepare for a training session in the training room of the Generac Industrial Power semi trailer.