

Single Engine Generators 10 kW - 600 kW



BECAUSE INDUSTRY DEPENDS ON POWER

GENERAC® | **INDUSTRIAL
POWER**



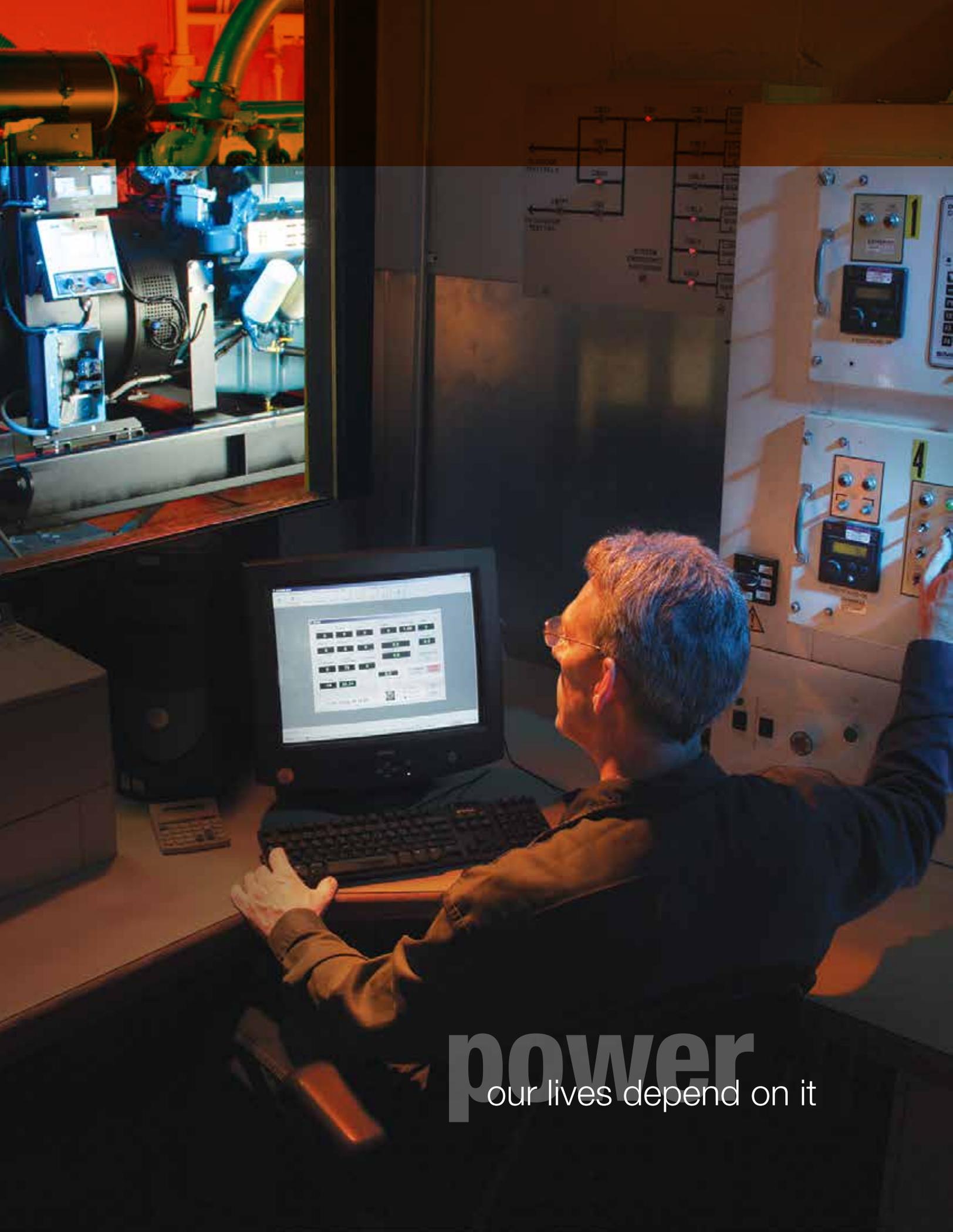


More **power** for
more applications.

No two facilities are alike.
Each one has unique power
requirements. But every
enterprise has one standby
power need in common. Stay
up and running, no matter what.
And one company does the job,
no matter how small, or big.

Generac Industrial Power.

GENERAC[®] | **INDUSTRIAL
POWER**



power
our lives depend on it

Generac Industrial Power offers an expansive product lineup from 15 kW through 2 MW single generators, and as much as 100 MW utilizing our innovative Modular Power System (MPS) technology. Check out additional brochures at www.generac.com/industrial.

Power failure is **not an option.**

Utility power goes out. Productivity goes down. Facilities are at risk. That's unacceptable. Generac Industrial Power keeps facilities, from data centers to hospitals, up and running.

GENERAC INDUSTRIAL POWER PROVIDES MORE THAN POWER.

We deliver the peace of mind and confidence that comes from a company whose only business is power. Not trucks. Not tractors. Generators.

Because we adhere to a vertically integrated philosophy, customers can get a generator system designed, manufactured and supported by a single source. All parts of the production and testing process are controlled by us. The results? Shorter lead times and higher quality. With alternators, enclosures, control systems, fuel tanks, communications software and engines all engineered to do one thing: provide critical power, when and whenever it is needed. This approach ensures generator systems that meet the highest reliability and performance standards, backed by 57 years of proven dependability.

As the grid becomes less reliable and power outages more frequent, healthcare facilities, data centers, telecommunications companies, financial institutions and other high value enterprises depend on Generac Industrial Power.

The right components for your application.

Generac's industrial generator sets use an integrated approach to building the optimum system for each application. This approach matches the right engine, alternator, control panel, enclosure, base tank and software for the most effective solution.

Whether our generators are powered by one of our own spark-ignited engines, designed and built in-house, or one of our best-in-class sourced engines, you'll find the reliability and flexibility to handle any power need.

GENERATOR SET OPTIONS

- Open model suited for indoor placement within a dedicated building or mechanical room
- Weather protective enclosure provides outdoor protection against the elements
- Sound attenuated enclosure options—Two levels provide significantly lower sound levels and are offered in weather protective enclosures.

CERTIFICATIONS

- **UL2200 Listed:** Generac was the first to introduce its complete product line in conformance with UL2200 safety standards.
- **EPA:** Environmental Protection Agency
- **NEMA:** National Electrical Manufacturers Association
- **CSA:** Canadian Standards Association*
- **CARB:** California Air Resources Board*
- **SCAQMD:** South Coast Air Quality Management District (CA)*
- **IBC 2009 & 2012:** International Builder Code seismic compliance
- **OSHPD:** Approved with shaker table testing. SDS value=2.5

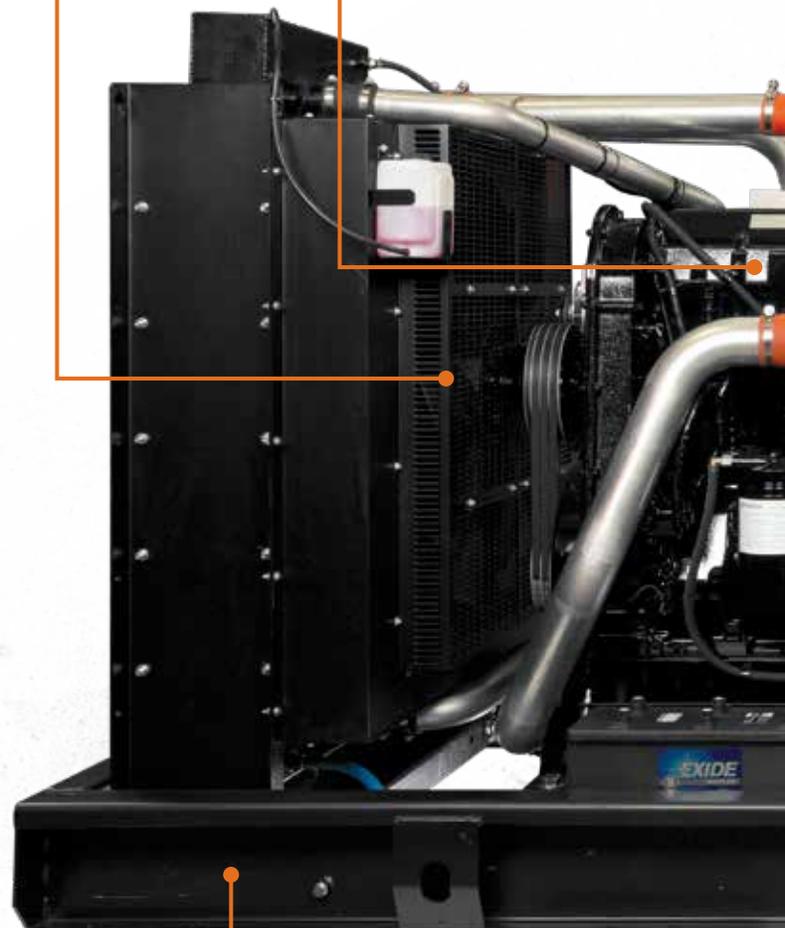
* Select models only

Modern Engine Technology

In addition to meeting EPA emissions standards and sound & endurance testing, a comprehensive set of highly specialized tests including torsional analysis, transient response, maximum motor starting and structural soundest are preformed

Guarding

Meeting UL2200 and CSA standards, Generac guards cover fan, belts, and pulleys for safety



Rigid Base Frames

Built to withstand high-torque transient conditions and eliminate vibrations. Fully welded for strength and then finished with industrial RhinoCoat™ paint finish

Industrial Alternators

Generac industrial alternators are machine wound, machine inserted and machine varnished for the ultimate in consistent manufacturing

Advanced Digital Controls

The industrial control panel combines durable construction with seamlessly integrated components and features like constant monitoring, built-in alarms and adjustable parameters, helping ensure reliable generator operation

Fully Integrated Design

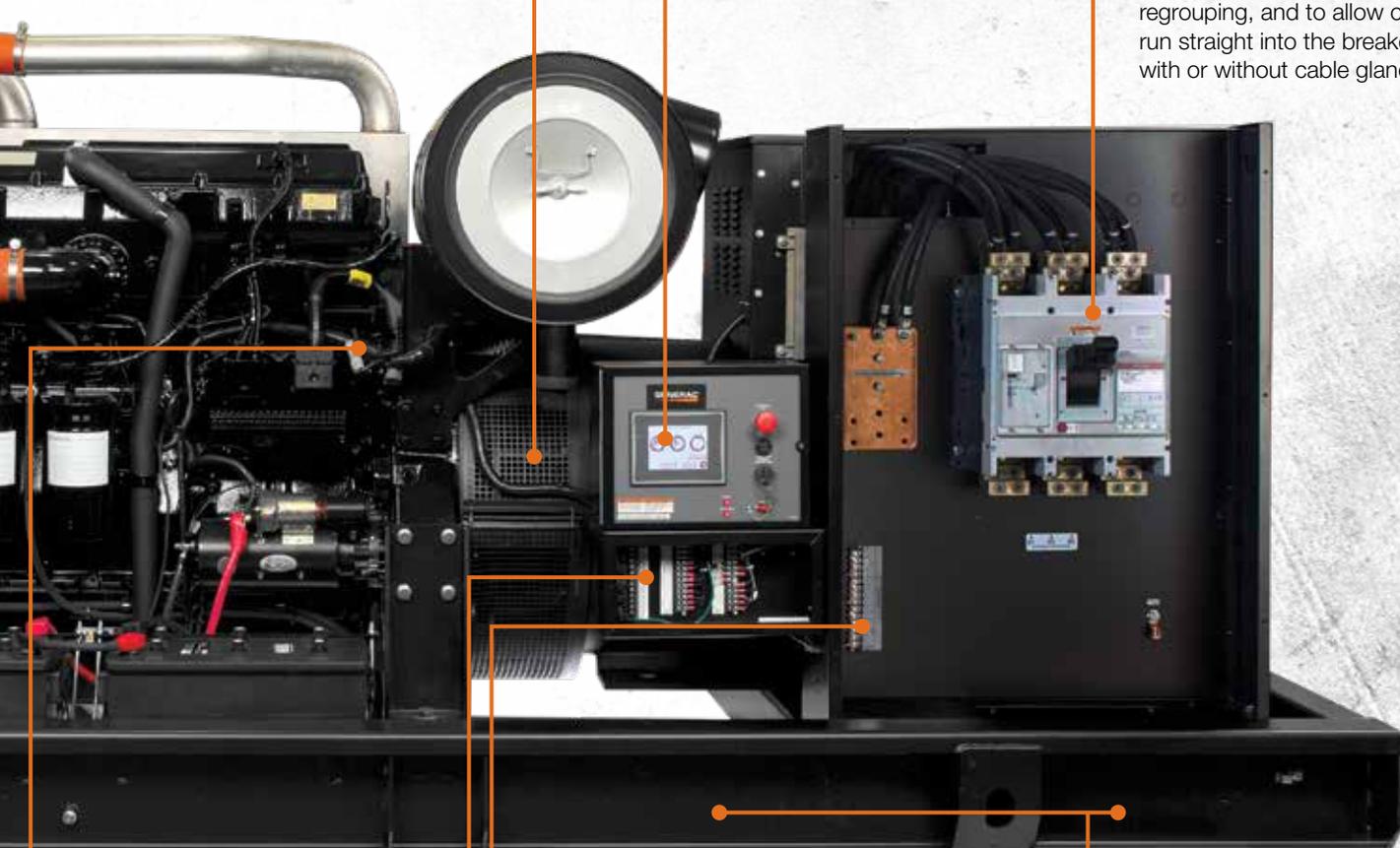
All control functions are integrated into a single encapsulated circuit board platform: genset controller, governor, regulator and protection

Touch Screen Interface

User-friendly access to alarm and generator operation information

Easier to Wire

Circuit breaker repositioned to provide more room for cable regrouping, and to allow cables to run straight into the breaker bays— with or without cable glanding



Advanced Harness & Connection Design

Advanced wire harness design with waterproof connectors assures reliable, repeatable interconnection between electronic and sensor components. Special sealed boots are used on interconnects and termination points for environmental protection

Discrete High and Low Voltage Terminal Connections

Separated to improve customer safety

Low voltage control connections located beneath the control panel. These include two-wire start, communications, alarm relay outputs, and more

High voltage power connections located in the main breaker box, and used for auxiliary items like the battery charger, block heater, and GFCI. This strip is removed if a load center is used

Separate High and Low Voltage Stub Up Locations

Low voltage stub up will be either in the middle area, between the breaker stub up (on units with a fuel tank), or directly below the low voltage terminal strip (on units without a fuel tank). High voltage stub up is directly below circuit breakers, or below the paralleling contactor for Modular Power Systems (MPS)

Powered by **ingenuity.**

Open up a Generac Industrial Power generator. You'll see more than an assembly of engines, alternators, controls and formed parts. You'll see over a half a century of ingenuity and innovation hard at work. Because the best generators don't just run on fuel. They're powered by expertise and innovation. And a single-minded focus to provide engines designed to do one thing. Generate backup power.

The Generac commitment to vertical integration means that we source, design and build engines to overcome the challenges of applying off-the-shelf technology to generators. Because we control the supply chain, you get the best fit for your power, performance and durability requirements. Generac operates its own test and R&D facility. Before a design goes into production, it undergoes prototype testing to evaluate every aspect of performance. This ensures each engine and genset conforms to every major industry standard. Each of the engines used in a Generac generator meets the required EPA emissions standards. In addition to emissions, sound and endurance, a comprehensive set of highly specialized tests including torsional analysis, transient response, maximum motor starting and structural soundness is performed.

A GENERAC CERTIFIED INDUSTRIAL ENGINE MUST PASS THE FOLLOWING RIGOROUS TESTING:

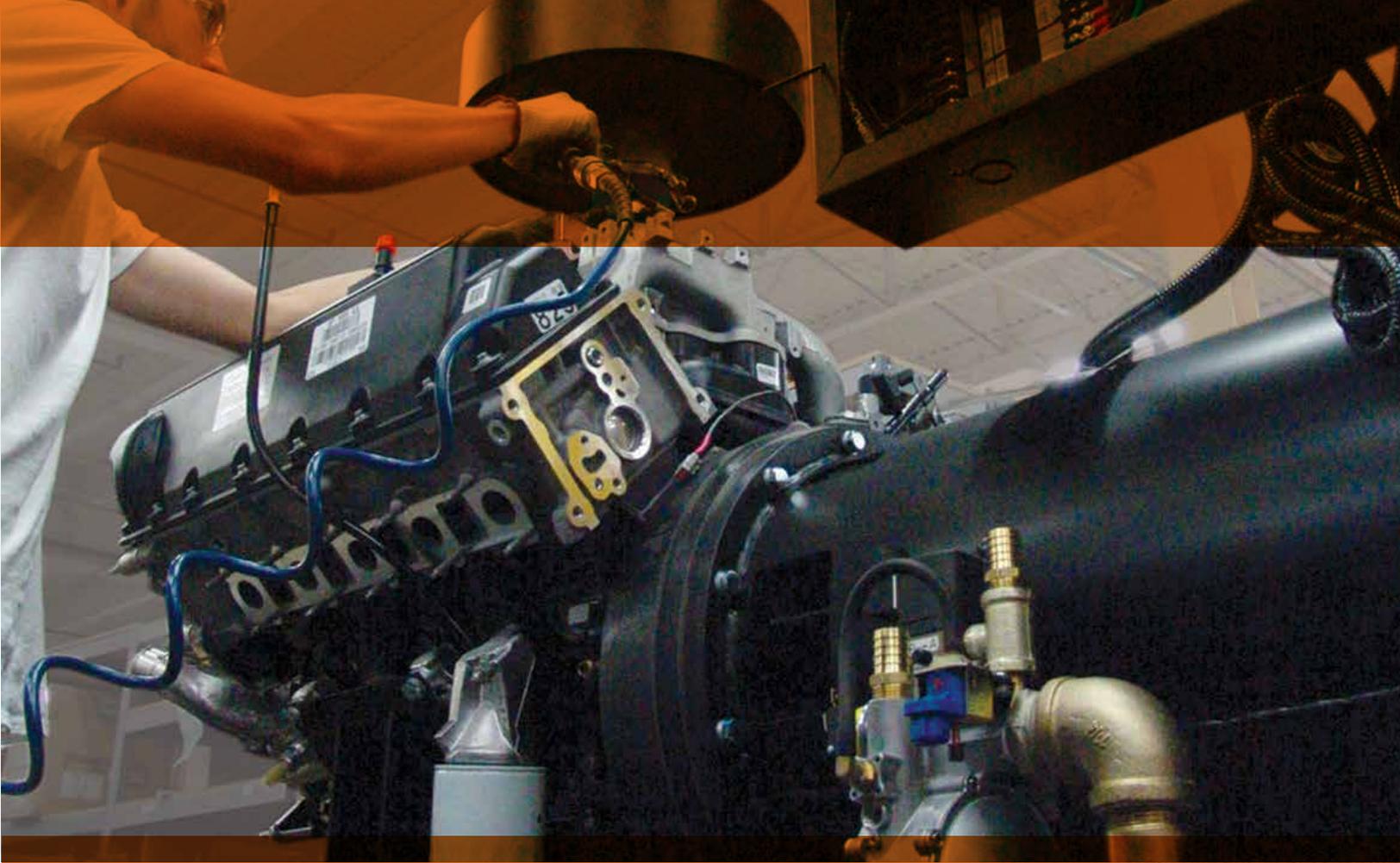
Durability

- Summer & winter durability tests
- Heat run tests with enclosures
- Vibration analysis
- Shaker table testing
- Coolant de-aeration test
- Prototype test

Performance

- Block load test
- Steady state response test
- Fuel consumption test
- Exhaust backpressure test
- Emissions verification
- Extreme cold-start test
- Air-flow test

57 years
ingenuity & innovation



SPARK-IGNITED ENGINES

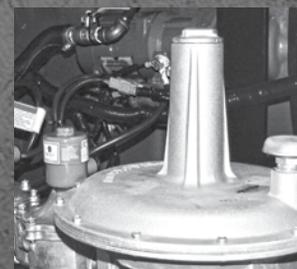
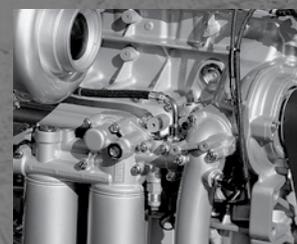
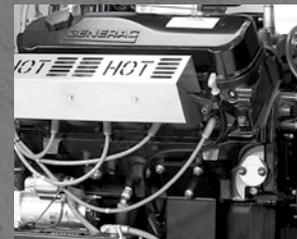
Applying gaseous fuel to standby power systems takes advanced engineering expertise to ensure reliability and long life. That's why Generac builds its spark-ignited engines from the block up. Upgrading the fuel system from gasoline to natural gas. Hardening the valves and seats to address the rigors of hotter-burning dry fuel. Adjusting engine timing to accommodate the unique combustion characteristics of natural gas. This allows Generac engines to last longer, require less maintenance, and perform more reliably in a standby power system than a third-party spark-ignited engine. Because we control the supply chain, we can also provide some of the shortest turnaround times in the industry. And as an additional benefit, every Generac engine meets the required EPA emission standards at the factory.

DIESEL-FUELED GENERATORS

Diesel-fueled generators are an efficient choice for high kW applications, as well as for facilities where code requirements call for on-site fuel storage, like hospitals and 911 call centers. To provide the best possible diesel-fueled standby power solutions, Generac identifies and pre-qualifies diesel engines proven in real-world applications under adverse conditions. Then we work hand-in-hand with best-in-class diesel engine manufacturers to optimize designs specifically to meet Generac Industrial Power requirements.

GENERAC BI-FUEL™ GENERATORS

Bi-Fuel generators start on diesel fuel and add natural gas as load is applied, until the unit runs primarily on natural gas. Generac's Bi-Fuel generators are fully integrated solutions, not after-market conversions in the field. That means every component is specifically designed, engineered, and factory tested to work together. Generac Bi-Fuel generators have the added benefit of being EPA compliant from the factory—the only bi-fuel systems on the market that can make such a claim.





Reliable, accurate, **integrated controls** for demanding applications.

POWERMANAGER® INDUSTRIAL DIGITAL CONTROLS

Modular Controller Architecture

Monitor and control key elements of your generator system with the touch of a button or click of a mouse. Generac engineers controls with safety and convenience as top priorities. In addition, features like constant monitoring capabilities, adjustable parameters and built-in protective alarms combine with seamlessly integrated components for the highest level of reliability.

A durable cast-aluminum casing withstands electrical interference and environmental effects. You get superior signal integrity against electrical noises and positive indication of input failures from 4 to 20 milliamp sensors.

For Non-Paralleling Applications

PowerManager® H-100 Generator Controller



This advanced controller integrates multiple functions, including:

- Isochronous speed control
- Digital voltage regulation with over-voltage protection
- Digitally adjustable voltage/frequency settings
- Alternator short circuit protection - GenProtect™
- 8 lines of display for complete visual status
- A wide array of monitored attributes including kW, kVA, power factor, frequency, phase voltages & currents
- Integration with building management systems via Modbus RTU
- I/O options available for custom configurations
- Built-in ladder logic for customized functions
- Advanced diagnostic and digital graphing capabilities
- RS232, RS485 or optional Ethernet connectivity
- Local/remote interface via GenLink® communications software
- Data logging, trending and automatic service reminders
- NFPA 99/110 alarms & shutdowns

See Generac's PowerManager® G-200 Controller for Paralleling Capabilities.

A complete line of generator enclosures.

By manufacturing our own generator enclosures, Generac is able to ensure each unit combines the highest level of durability with the latest engineering advancements in noise reduction and weather resistance.

COMPONENT DURABILITY

Corrosion resistant SermaGard® silver coated fasteners are utilized throughout the enclosure. Heavy-duty door hinges, latches, and striker plates are polished stainless steel. Internal flanges and fastener locations reduce corrosion and improve external aesthetic appearance.

- Large access doors have been engineered with a slip-pin hinge design for easy door removal. Slip-pin door hinges are mounted with stainless steel fasteners and polyurethane gaskets for long life durability though dissimilar metals separation
- Door jambs have closed-cell polyurethane gasketing around 100% of the door perimeter to prevent water ingress and sound egress

LOW SOUND EMISSIONS

- Sound attenuated enclosures have adhesive backed acoustic silver Mylar® foam panels for maximum sound absorption, heat reflection and resistance to oil and water
- Roof acoustic foam panels are held with mechanical retention caps and pins that are capacitive discharge welded to enclosure panels

ADDITIONAL PERFORMANCE FEATURES

- Hurricane level wind ratings with optional certifications available
- Door latches keyed for equipment security
- Full 180° door swing provides full access to generator equipment
- Heavy-duty steel or aluminum options available
- Alternate paint color options available

TOUGH, DURABLE ENCLOSURES

Our RhinoCoat™ finish system uses a superior process that takes thermo plastic and bakes it on to the metal. This process is used on not only the enclosure, but also the base frame, fuel tank, and other sheet metal components.



Six-Louver Single Piece Die Stamping

This manufacturing process allows for a more accurate control of airflow while preventing water ingress



Foam Insulation With Reflective Silver Mylar Layer

- Improved sound attenuation
- Reflective surface provides added light during maintenance



Gasketed Doors

Provides additional protection from weather and rodents



Stainless Steel Latch Handles

- Corrosion-free, non-protruding and secure, with built-in locks
- Standard doors & positive lock clasp
- Oversized door & 3-pt tuck & turn



Nylon Washers

All potential metal to metal contact areas are protected with a nylon washer eliminating rust points



GENERAC INDUSTRIAL POWER



Dual Opening Doors

- Removable for extra access
- Decreases overall footprint
- Decreases weight of doors



Slip-Pin Door Hinges

Open hinge system allowing for easy removal of doors

Discharge Hood

Improves generator reliability by:

- Mounting hot muffler in a functionally optimal location
- Protecting radiator core from physical damage
- Preventing circulation of hot discharge air
- Avoiding negative impacts of prevailing wind

Alternators.
Fuel tanks.
Base frames.

Designed for optimized performance.

INDUSTRIAL ALTERNATORS

Generac industrial alternators are machine wound, machine inserted and machine varnished for the ultimate in consistent manufacturing. Precision winding and stack bracing ensures reliable performance. Roter spin balancing eliminates vibration, and double venting contributes to cooler operation, longer life and enhanced efficiency. All alternators are built with high temperature 150°C rise Class H insulation. Maximum operating temperatures are designed not to exceed a temperature rise of 120° C. This provides an extra margin of thermal capability for standby applications with single phase and non-linear loads.

For improved motor starting capabilities and less voltage drop, alternators can be upsized as an option. Producing more starting kVA and lower temperature rise in this manner is a Generac Industrial Power specialty. Alternator choices include a variety of voltages, excitation options, climate coating and anti-condensation strip heaters.



50,000
generators specified every year



FUEL TANKS – UL-142 Secondary Containment

The fuel tanks for Generac gensets are designed and manufactured by Generac. This gives us total quality control over this critical genset component. Every detail is designed to protect against fuel leaks and contamination.

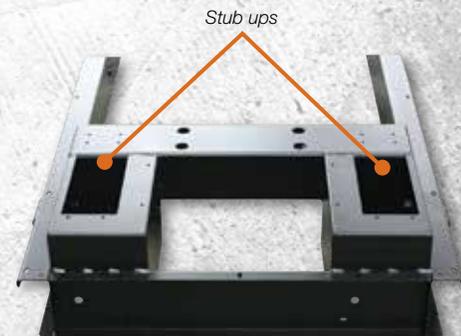
- Robotic weld system provides consistent welds to eliminate defects
- Factory pressure tested and double wall construction minimize concerns of onsite fuel leaks
- Generac RhinoCoat powder coat paint system offers maximum protection against the elements
- Sloped tops shed water to prevent corrosion and extend tank life
- Sloped bottom ensures separation of potential water contamination
- Meets a variety of filling, venting and localized certifications
- Options include spill fill containment, vents and alarm



BASE FRAME

Generac's heavy duty base frames assure accurate engine-alternator alignment remains intact.

- Fully welded construction resists high-torque transients while providing solid weldments for smooth, undisturbed painting surfaces
- Oil and water drain points located for easy access
- Vibration isolators contribute to smoother operation
- Power cable stub up for the easiest installation
- Battery trays are also welded in place prior to receiving Generac's RhinoCoat paint system
- Heavy duty lifting eyes



One of the largest suppliers in the industry.

No matter what you need standby power for, whether to keep a hospital operating, a data center functioning or a factory producing, count on Generac Industrial Power to provide the right product to meet your demands. With our expansive product line, you'll find the reliability, consistency and flexibility to handle any power need.

Diesel

The Traditional Choice for Standby Power

Diesel-fueled generators are an efficient choice for high kW applications, as well as for facilities where code requirements call for on-site fuel storage, like hospitals and 911 call centers. To provide the best possible diesel-fueled standby power solutions, Generac identifies and prequalifies diesel engines proven in real-world applications under adverse conditions. Then we work hand-in-hand with best-in-class diesel engine manufacturers to optimize designs specifically to meet Generac requirements.



Natural Gas

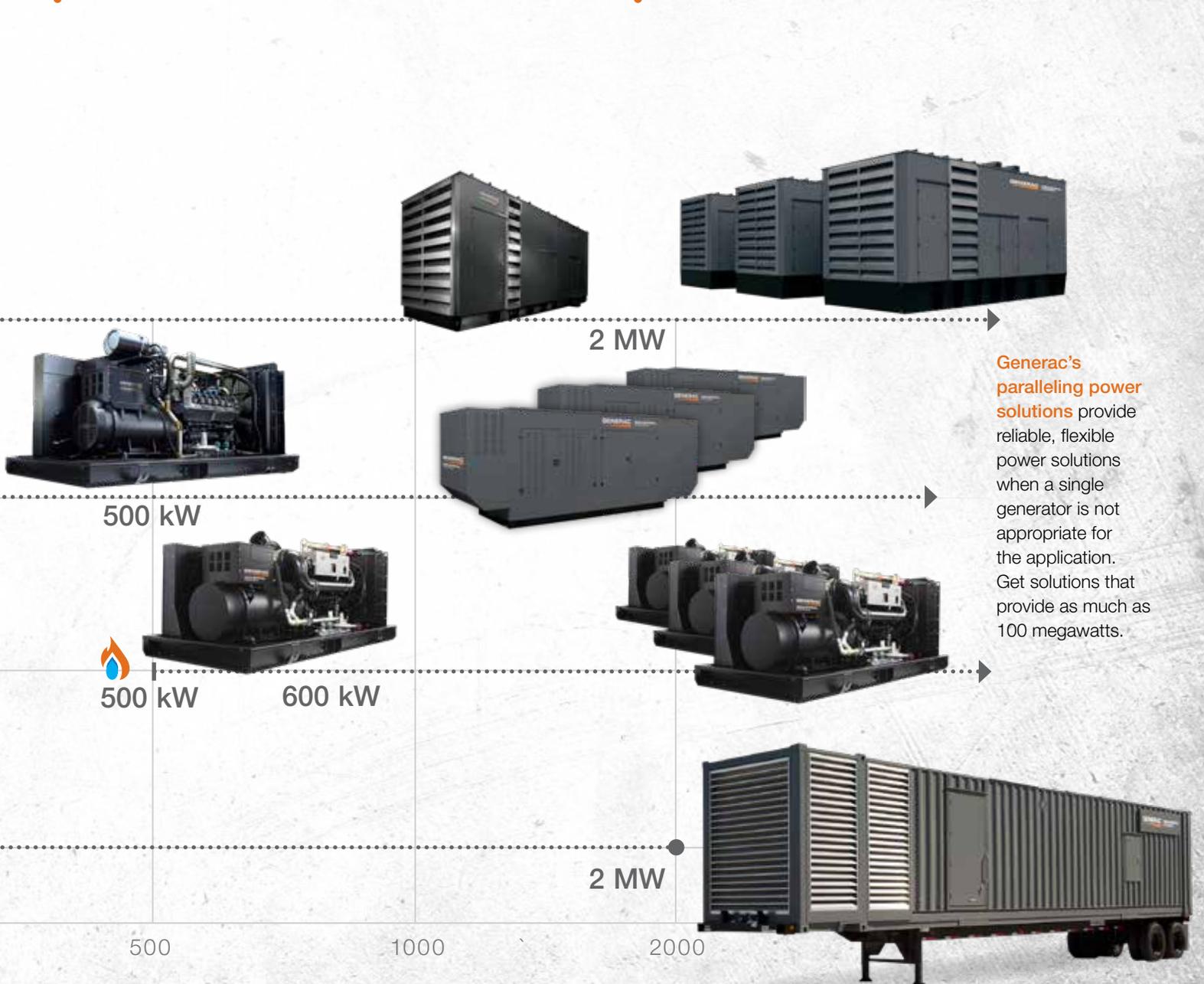
The Smartest Fuel Choice

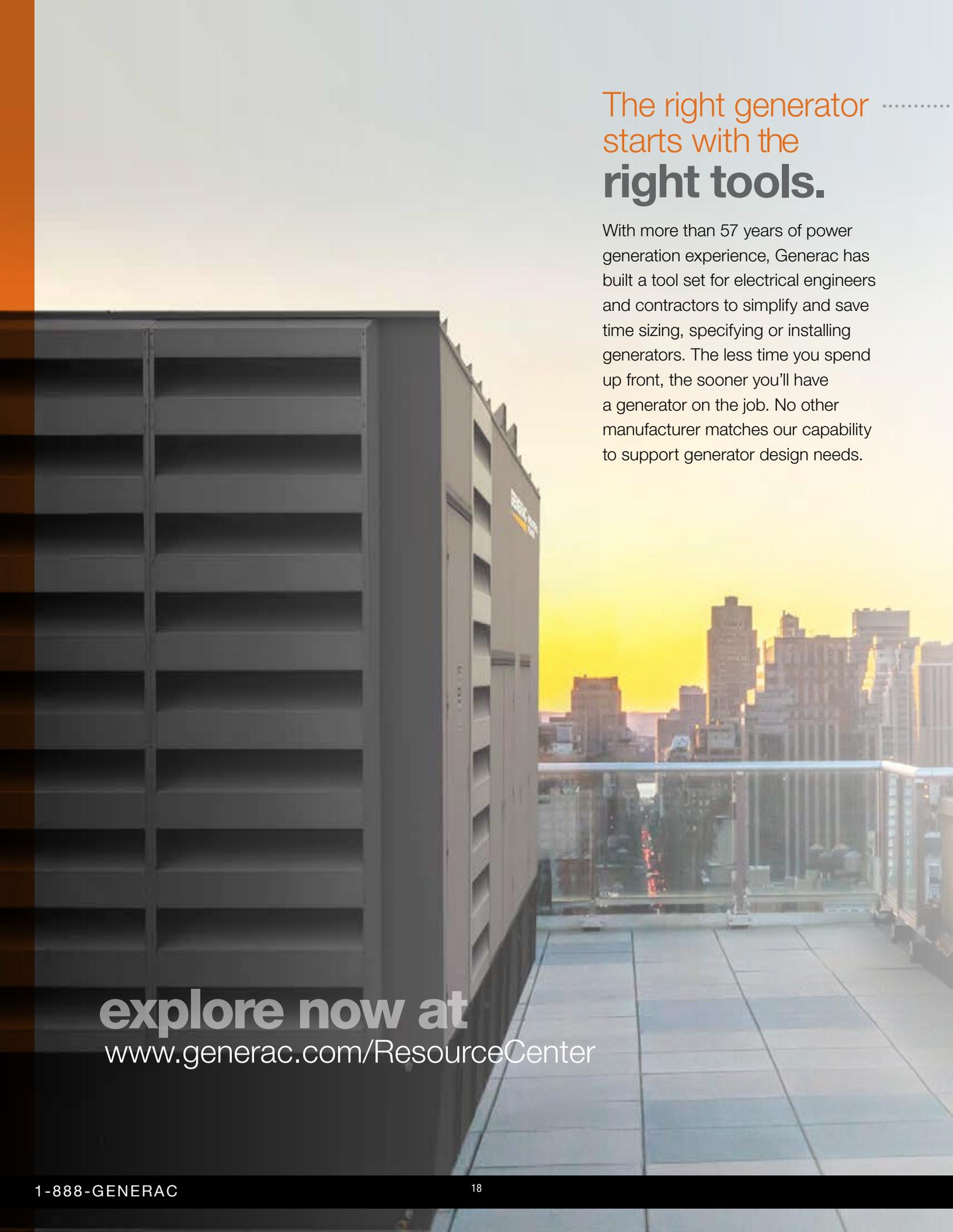
- Long Running Times: Because natural gas is supplied by a utility, refueling is not an issue.
- Environmentally Friendly: Natural gas-fueled engines emit fewer nitrogen oxides and particulate matter, while also avoiding the fuel containment, spillage, and environmental concerns associated with fuel storage.
- Fuel Reliability: With natural gas, there's no onsite fuel storage or ongoing maintenance required in order to keep a clean and reliable supply of fuel.

Bi-Fuel

The Only True Bi-Fuel Solution.

Generac Bi-Fuel generators start on diesel fuel and add natural gas as load is applied, until the unit runs primarily on natural gas. Unlike practically every other bi-fuel solution on the market, Generac's Bi-Fuel generators are fully integrated solutions. That means every fuel train component, every sensor, every actuator is specifically designed, engineered, and factory tested to work together. This gives Generac Bi-Fuel generators the added benefit of being EPA compliant from the factory—the only bi-fuel systems on the market that can make such a claim.





The right generator starts with the **right tools.**

With more than 57 years of power generation experience, Generac has built a tool set for electrical engineers and contractors to simplify and save time sizing, specifying or installing generators. The less time you spend up front, the sooner you'll have a generator on the job. No other manufacturer matches our capability to support generator design needs.

explore now at
www.generac.com/ResourceCenter

RESOURCES

GENERAC CITY

Commercial, Industrial, and Mission Critical Facilities rely on Generac Industrial Power every day. Explore Generac City to learn more.

VIDEOS

Learn more about Generac Industrial Power and see how other businesses selected Generac standby products.

CASE STUDIES

Read how other businesses and industries selected their Generac standby power systems, and how the investment paid off for them through a vast collection of case studies.

POWERCONNECT NEWSLETTER

Subscribe to Generac Industrial Power's newsletter to receive regular updates on new products, case studies, and trends in standby power.

WHITEPAPERS

There are many issues to consider when selecting a standby power system. Generac has a number of white papers that can help you understand all the considerations.

NEWS & ARTICLES

Stay up-to-date on the latest news, trends, and product information related to power generation in this collection of industry articles.

TOOLS

POWER DESIGN PRO

The most powerful electrical and mechanical design and sizing tool on the market. Generac's Power Design Pro is a one stop solution center for the consulting engineer

SPECEXPERT BY MASTERSPEC

Helping to make spec writing easier, faster, and more accurate with SpecExpert by MasterSpec – an easy to use, guided program for creating specifications.

BIM DOCUMENTS

Create intelligent designs utilizing BIM. Download Generac Industrial Power product models which have undergone quality assurance testing to meet the strict requirements of Revit.

EDUCATION

POWER TRIP EXPERIENCE TOUR

Our 53' Power Trip Experience has been on the road for over a decade educating tens of thousands of engineers, and this year we're bringing new solutions, products and more trusted expertise right to your city.

PROFESSIONAL DEVELOPMENT SEMINAR SERIES (PDSS)

These courses are oriented towards practicing design, sales and consulting engineers involved in supplying emergency and standby power to industrial, commercial and mission critical facilities. Earn free CEU's and PDH's!

GENERAC INDUSTRIAL POWER ENGINEERING SYMPOSIUM

The Generac Industrial Power Engineering Symposium is a 3-day event designed for the practicing engineer to walk away with a better understanding of generator sizing, application, and code compliance.

PRODUCT INFORMATION

INDUSTRIAL PRODUCT WEBPAGES

Explore the full line of Generac Industrial Power products including gaseous, diesel, and bi-fuel generators in a variety of configurations and outputs.

SPEC SHEETS

Download any of Generac Industrial Power's product spec sheets all from one place.

BROCHURES & LITERATURE

View, save, or download brochures and literature to explore the full line of Generac Industrial Generators.

SALES, DESIGN AND SERVICE SUPPORT

Just as important as product quality and reliability is Generac Industrial Power's commitment to customer support, both before, during and after the purchase. Generac Industrial Distributors sell and service all Generac generators, controllers and switching systems. Our worldwide network has factory-trained and certified technicians with trusted expertise in system design, sizing, installation, commissioning, diagnostics and repairs.

- 24/7/365 emergency response
- Engineering and project management capabilities include professional and complete design and installation consultative services
- Dedicated strategic account support and regional or national program implementation programs

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For more information, such as
FAQ's, visit us online at
www.generac.com/industrial

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POWER**
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