

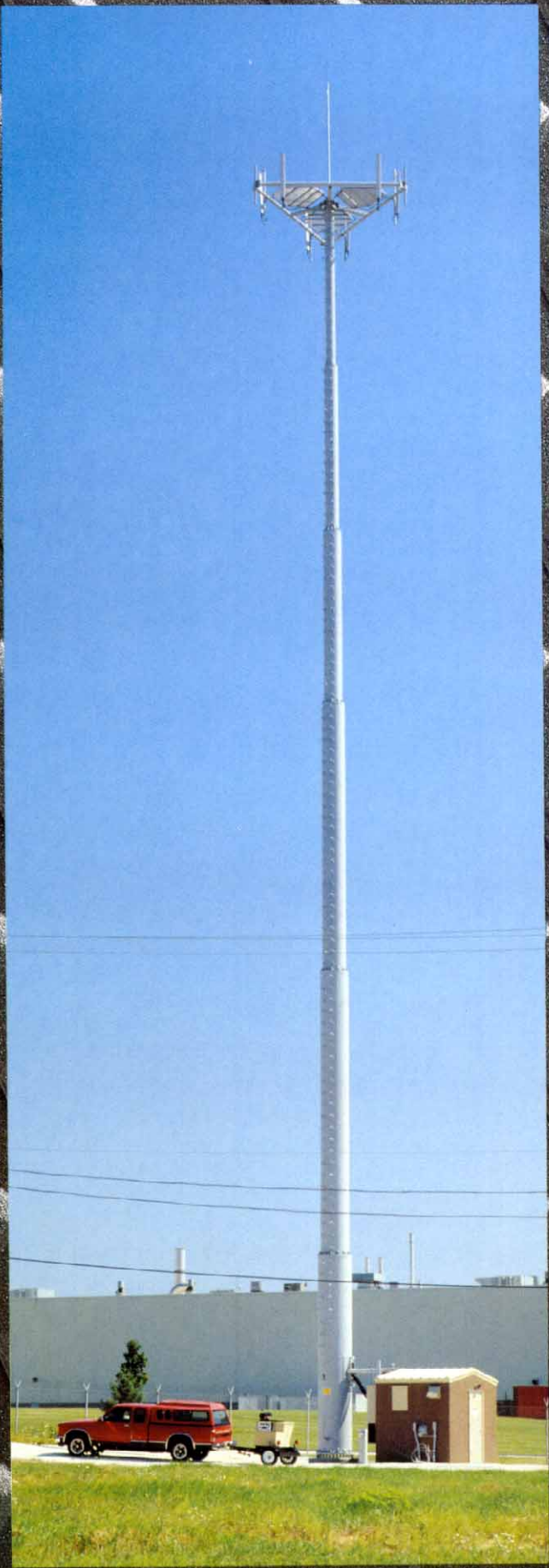
GENERAC[®]

POWER SYSTEMS









GENERAC®

POWER SYSTEMS

Since 1959, millions of Generac generators have gone into operation around the world for the biggest names in telecommunications, construction, manufacturing, health care and retailing.

Wherever reliability, value and electrical current are essential, Generac generators are there.

Our reputation for quality is backed by over three decades of stable growth. Quality is the cornerstone of our corporate culture. It is an attitude which permeates all areas of Generac, from the boardroom to the stockroom.

We set higher standards than the industry requires because it is our goal to provide superior power systems - far superior than any other generator manufacturer.

Because of this attitude, and our attributes which follow it, Generac is commonly known throughout the generator industry as The Reliable Ones.

ENGINEERING



TOMORROW'S TECHNOLOGY TODAY

Standards

Listen to a Generac engineer talk about a new prototype generator. You will observe an uncommon optimism. A passion for perfection that transcends the usual. Generac's Engineering Group constantly explores the limits of new generator technologies. And Systems Engineering is the key that continually tries the door to perfection.

The two main components that make up a generator - engine and alternator - are developed in tandem as a singular performance package. Stress levels are reduced on all rotating parts. Support components are engineered to exact tolerances. The generator's load is distributed evenly throughout the unit so that no single component bears the full burden of wear. The result emulates our promise to you in writing - you can expect a long and trouble free generator life.

Testing

Generac prototype testing guarantees the promised performance. Before a new design is put into production, it must withstand a comprehensive series of grueling tests that meet or exceed industry standards. Each prototype is tested for:

- maximum power level
- maximum motor starting
- structural soundness
- voltage regulation
- torsiograph analysis
- cooling air requirements
- transient response
- alternator temperature rise
- endurance (2000 hours/full load)
- harmonic analysis

Our total commitment to quality includes the testing of individual components, reliability, environmental, emissions, destruction and life testing. In addition, each prototype is thoroughly tested to CSA, NEMA and EGSA standards.

Custom Designs

We've put over 18,000 specialized parts into use for custom designed turnkey gensets. As Bill Treffert, Generac's President, puts it, "Other companies say 'This is what we have - take it', at Generac we say, 'tell us what you need and we'll build it.'"



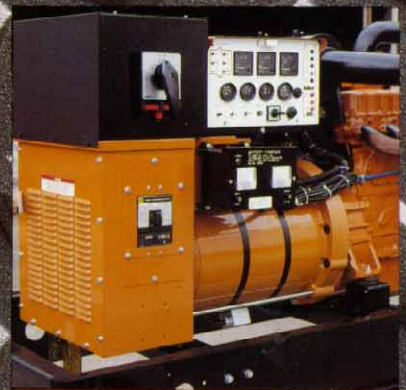
Engineering cad station



Rotor/engine assembly



Prototype testing



Custom design

QUALITY



Paint process controls.

A PERSONAL CONCERN

Customer Satisfaction

Quality evolves from Generac's desire for complete, customer satisfaction. Working side-by-side with production teams, Generac's engineers demonstrate attention-to-detail quality up and down the factory floor. Through positive and consistent attention, people rise to higher level of expectation. Quality unfolds as a personal concern for everyone involved in the manufacturing process.

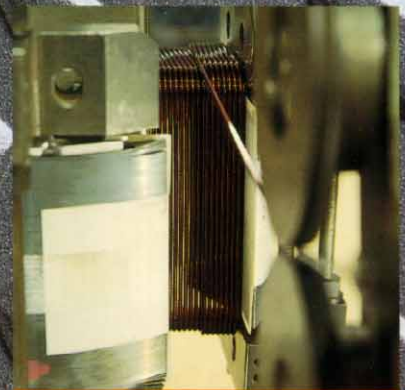
To assist our production teams, the latest computer systems help with factory planning, scheduling, production, inventory and order tracking. Quality is controlled during manufacturing with the help of the latest testing procedures. Tri-axial Precision Measurement machines assure tight tolerances. High voltage testing guarantees high quality rotors and stators before assembly. All solid-state components are subjected to hot and cold cycle tests. Finally, every standby generator is performance tested before leaving the plant.

By setting higher quality standards than the industry demands, we assure complete customer satisfaction. Just ask any of our million customers who understand personally the Generac difference.

State-of-the-art Facilities

Generac's newest plant, located in Eagle, Wisconsin, utilizes improved manufacturing techniques. Flow-through materials handling, powder coat sheet metal finishing and base tank/frame welding name but a few of the many efficient procedures incorporated into Generac's new work flow system.

The powder coat paint booth is the latest technology applied to our standby generator enclosures. After the raw sheet metal is cut, bent and shaped, it is washed, dried and electrically charged before sent to the paint booth. Upon entering, a paint powder - with the opposite charge of the metal - is bonded onto the sheet metal which is then oven-baked. This final product provides better protection against corrosion and proves tougher than normal paint finishes.



Precision layer rotor winding



Frame welding

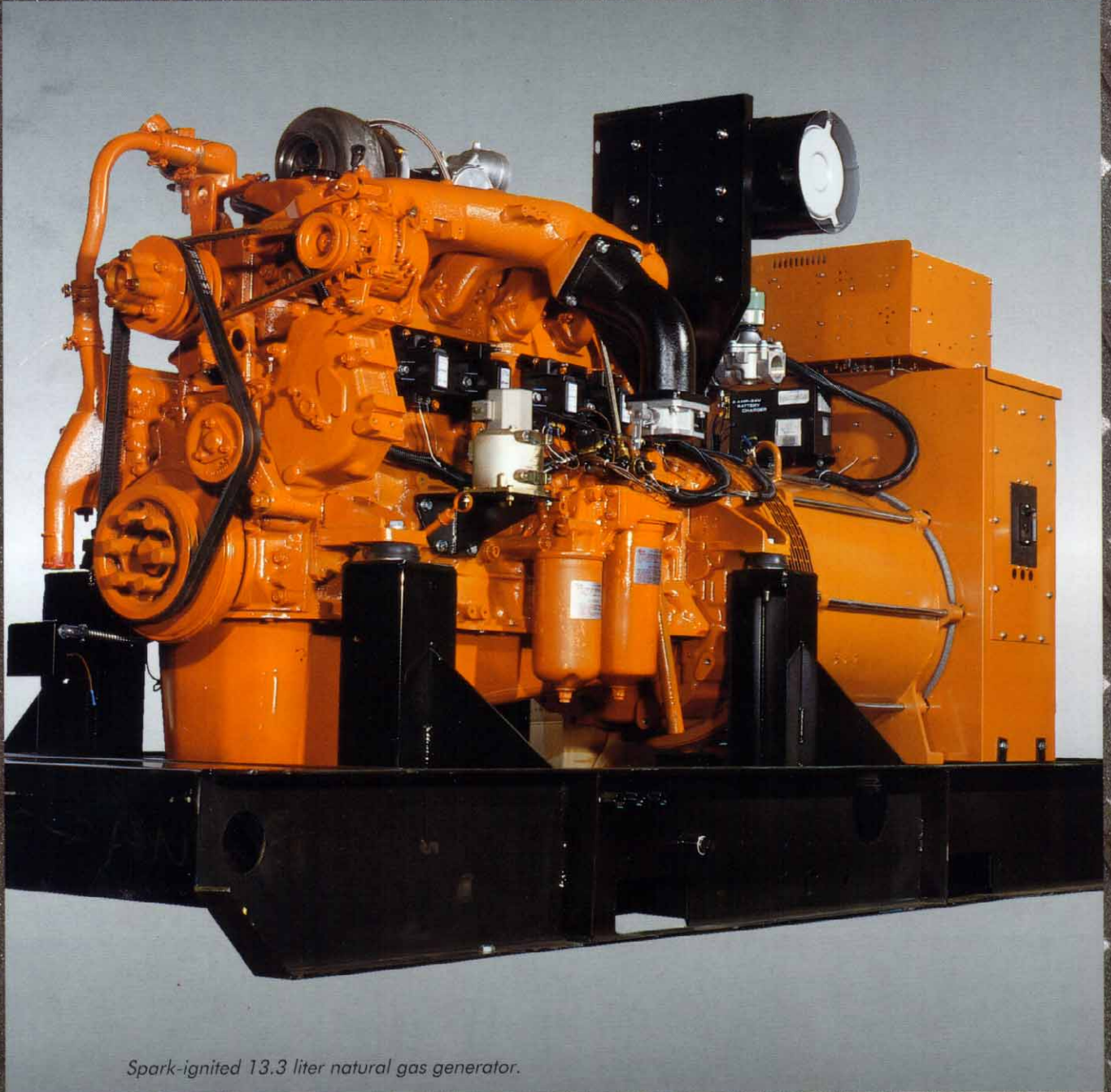


Powder paint application



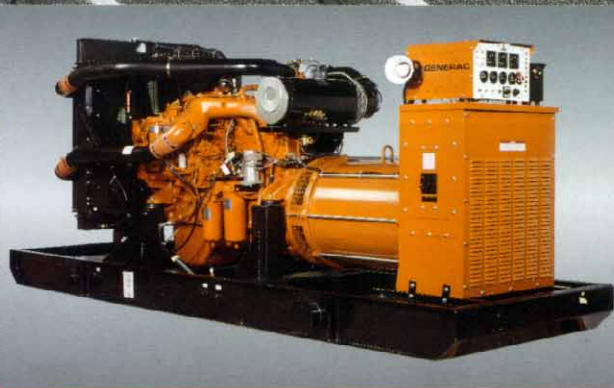
Enclosure assembly

PRODUCT



Spark-ignited 13.3 liter natural gas generator.

PRE-PACKAGED TO CUSTOM DESIGNS



Diesel and Gas Generators

Each engine is power matched to the alternator, effectively yielding its highest kW rating. Optional gearbox driven generators maximize kW ratings by increasing engine horsepower through higher RPM and use Generac's power-pulse absorber system to eliminate torsional pulse to gears, bearings and gear case. Turbo-chargers and aftercooling are optional.



All-Weather and Sound-Attenuated Enclosures

Every Generac power system can be housed in its own all-weather enclosure. Large, removable panels provide convenient access. For ultra-quiet operation, these enclosures can be fitted with sound-attenuated material. Electrostatically applied zinc coated sheet metal, baked-on powder coated paint, stainless key locks and hinges insure maximum life and protection.



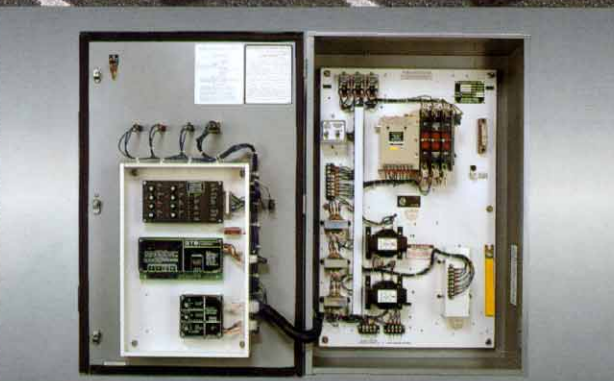
Custom Designs

When an application calls for configurations which are not normally available, we are ready and willing to design special systems which meets the needs of the customer. Our engineers can retro-fit an existing model or create a new one that will accommodate the special circumstances of one unique installation or an entire industry.



Trailer Mounting

Generac offers both standard and custom-built trailer mounted generators with capacities of 2500, 3500, 5000, 8500 and 10000 lbs. **Standard:** ball and/or pintel couplers, swivel tongue jacks, stabilizer jacks, single or tandem axles, base-mounted fuel tanks, electric or hydraulic (surge) brakes. **Optional:** tie downs, lifter eyes, adjustable couplers, sound-attenuated enclosures.



GTS Automatic Transfer Switches (100 - 2600 Amp)

- engine warmup / bypass
- frequency and voltage set
- return to utility delay
- engine cool down
- UL 1008 listed
- minimum run
- 7 day exerciser
- utility voltage sensor
- line failure sensing
- utility interrupt delay
- NEMA 12 enclosure
- quick change multi-voltage



Digital Control Panel

Generac's latest enhancement is a digital control panel. Fitted with digital controls and keypad, unit operations and alarm conditions can be fully programmed and monitored locally or remotely through an internal modem. Monitoring includes: voltage, amperage, frequency, kilowatts, power factor, oil pressure, water temperature, battery voltage, and engine hours.

FEATURES

Closed Recovery Cooling System

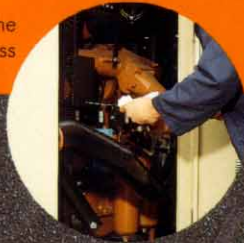
Extends engine life. This pressurized system (with over-flow tanks) virtually eliminates the introduction of air into the cooling system. Rusting, oxidizing and fluid acidity are thereby held to a minimum both during operation and when the system is at rest. Standard 110° F ambient radiator.

Isochronous Governors

Controls engine speed to maintain a constant frequency. Standard on some models.

Easy to Service

All service parts are brought out to the perimeter of the frame for easy access and maintenance.



Base Tanks

Environmentally friendly base tanks eliminates the need to bury fuel tanks underground.

Automatic Low Coolant Level Shutdown

If the coolant level drops below a predetermined safe operating level, the engine automatically shuts down. Solid-state circuitry for reliability and long life.

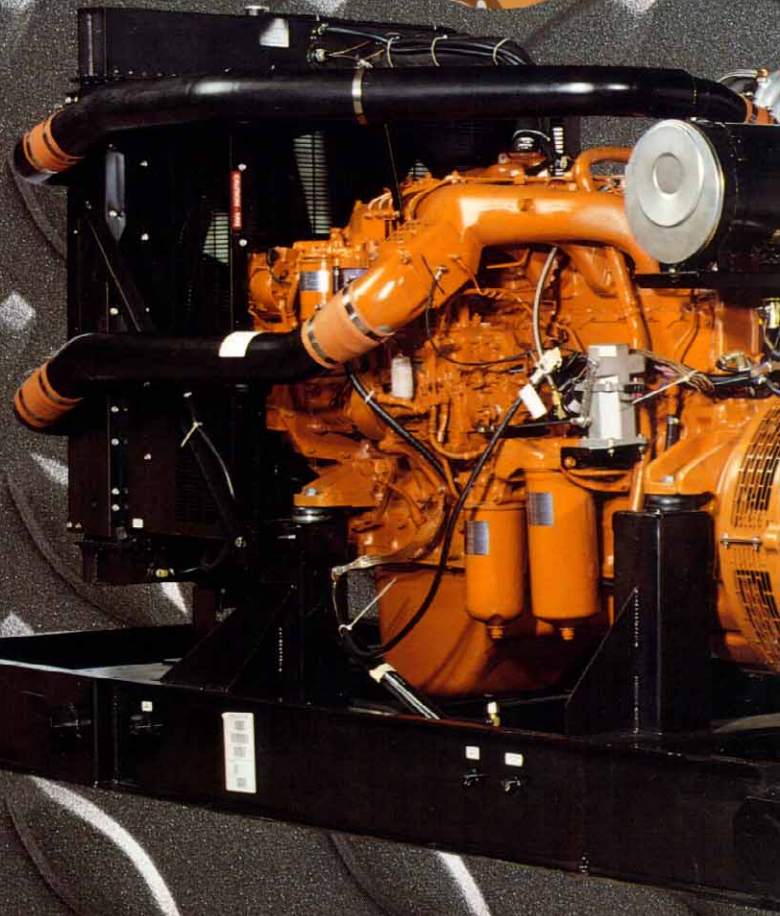
Modern Engine Technology

For maximum performance, better fuel utilization and long generator life. Includes turbo-charging, aftercooling, gear-driven assemblies and a host of options/modifications that increase fuel and engine efficiency. Engines are torque-matched to meet the constant RPM requirements of specific Power Systems.



Oversized Air Filter

Heavy-duty, high-capacity air filter for the most demanding conditions.



Base Tank and Frame Welding

At Generac's new facility in Eagle, Wisconsin, fuel tanks and base frames for our gensets are welded in-house to maximize quality and decrease turn-around time.



COMPLETE QUALITY

Approvals

Generac is a certified CSA Approved supplier and Generac Standby Systems meet the Buy American Act, Section 52.225-5, Construction Material.

Control Panel

Can be rotated in any direction and is isolated from the unit with vibration dampeners. Incorporates the latest technology and is the most complete panel available. (Includes: Ram Power 232)

Generac DC Charging System

Several float types of battery charging systems are optional. Standard: 2 amp and 10 amp.



Solid-State, Frequency Compensated, $\pm 1\%$ Voltage Regulation (V/F) with LED Indicator Lights

Provides optimized fast response to changing load conditions. Maximum motor starting capability is assured by electronically torque matching the surge loads to the engine. Thus, more horsepower is converted to electric motor starting power. Only Generac provides standard LED indicator lights for excitation, voltage and a variety of shut-down conditions.



Permanent Magnet Excitation (PME)

Provides a continual excitation supply to the voltage regulator. Eliminates load induced harmonics. Increases motor starting capabilities.

Solid-State Sensing and Starting Control

Provides the ultimate in engine protection. Magnetic pickup senses overspeed and automatically shuts down engine. Disconnects starter motor and prevents re-engagement. Provides 8-cycle cranking for improved starting reliability and cranking termination for starter motor protection.

Advanced Wire Harness Design

Assures reliable, repeatable interconnection between circuit components. Special sealed boots are used on interconnection and termination points for environmental protection.

Generac Manufactured Alternators

Provides state-of-the-art reliability and long life. Revolving field alternators are Generac wound, fully-insulated and self-ventilating. Oversized alternators are available on many models to provide additional KVA.



Rust-Proofed Sheet Metal with Baked Powder Coat Finish

All sheet metal parts have an electrostatically applied zinc coating that enhances paint adhesion and provides protection against rusting, even if the paint becomes chipped or scratched.



Vibration Isolation

Rubber vibration isolators are standard between the generator and base to virtually eliminate transmission of vibration to the mounting floor. Many competitive systems mount the engine generator directly to the base and may or may not use vibration isolators between the base and mounting pad.

Single Source Manufacturer

Generac prides itself in being a single-source manufacturer. The total generator set is Generac manufactured, not assembled. We provide an all-inclusive service support for parts (including all engine parts for the Generac Engineered Engines), warranty and trained field service technicians. The result is a fast, efficient service and warranty department not found in multi-source assembler "manufacturers".

DIESEL SYSTEMS

Model	Power rating	Freq. (Hz)	Engine ¹ (liters)	Phase	Engine RPM	Generator RPM	Excitation ²	Length	Width	Height	Weight
SD008	8 kW	60	1.0	1,3	1800	1800	E	44"	25"	30"	600 lbs
	8 kVA	50	1.0	1,3	1500	1500	E	1118 mm	635 mm	762 mm	272 kg
SD010	10 kW	60	2.4	1,3	1800	1800	B or E	76"	34.5"	37"	1100 lbs
	10 kVA	50	2.4	1,3	1500	1500	B or E	1930 mm	876 mm	940 mm	499 kg
SD015	15 kW	60	2.4	1,3	1800	1800	B or E	76"	34.5"	37"	1100 lbs
	15 kVA	50	2.4	1,3	1500	1500	B or E	1930 mm	876 mm	940 mm	499 kg
SD020	20 kW	60	2.4	1,3	1800	1800	B or E	76"	34.5"	37"	1150 lbs
	20 kVA	50	2.4	1,3	1500	1500	B or E	1930 mm	876 mm	940 mm	522 kg
SD025	25 kW	60	3.0	1,3	1800	1800	B or E + P	76"	34.5"	38.5"	1500 lbs
	25 kVA	50	3.0	1,3	1500	1500	B or E + P	1930 mm	876 mm	978 mm	726 kg
SD030	30 kW	60	3.0T	1,3	1800	1800	B or E + P	76"	34.5"	38.5"	1600 lbs
	30 kVA	50	3.0T	1,3	1500	1500	B or E + P	1930 mm	876 mm	978 mm	726 kg
SD035	35 kW	60	3.0T	1,3	1800	1800	B or E + P	76"	34.5"	38.5"	1600 lbs
	35 kVA	50	3.0T	1,3	1500	1500	B or E + P	1930 mm	876 mm	978 mm	726 kg
SD040	40 kW	60	4.0	1,3	1800	1800	E + P	93"	37"	45"	2000 lbs
	40 kVA	50	4.0	1,3	1500	1500	E + P	2362 mm	940 mm	1143 mm	907 kg
SD050	50 kW	60	4.0T	1,3	1800	1800	E + P	93"	37"	45"	2300 lbs
	50 kVA	50	4.0T	1,3	1500	1500	E + P	2362 mm	940 mm	1143 mm	1043 kg
SD060	60 kW	60	4.0T	1,3	1800	1800	E + P	93"	37"	45"	2300 lbs
	60 kVA	50	4.0T	1,3	1500	1500	E + P	2362 mm	940 mm	1143 mm	1043 kg
SD080	80 kW	60	5.0T	1,3	1800	1800	E + P	93"	37"	45"	2700 lbs
	80 kVA	50	5.0T	1,3	1500	1500	E + P	2362 mm	940 mm	1143 mm	1225 kg
SD100	100 kW	60	5.0TA	1,3	1800	1800	E + P	93"	37"	45"	2900 lbs
	100 kVA	50	5.0TA	3	1500	1500	E + P	2362 mm	940 mm	1143 mm	1315 kg
SD125	125 kW	60	5.0TA/GD	3	2300	1800	E + P	110"	37"	45"	3600 lbs
	150 kVA	50	5.0TA/GD	3	2300	1800	E + P	2794 mm	940 mm	1143 mm	1633 kg
SD130	130 kW	60	7.5T	3	1800	1800	E + P	110"	37"	50"	2900 lbs
	125 kVA	50	7.5T	3	1500	1500	E + P	2794 mm	940 mm	1270 mm	1315 kg
SD155	155 kW	60	7.5TA	3	1800	1800	P	110"	37"	50"	3450 lbs
	150 kVA	50	7.5TA	3	1500	1500	P	2794 mm	940 mm	1270 mm	1565 kg
SD180	180 kW	60	7.5TA/GD	3	2300	1800	P	122"	37"	50"	4150 lbs
	180 kVA	50	7.5TA/GD	3	2300	1800	P	3099 mm	940 mm	1270 mm	1883 kg
SD180	180 kW	60	12.0T	3	1800	1800	P	136"	53"	65"	5400 lbs
	180 kVA	50	12.0T	3	1500	1500	P	3454 mm	1346 mm	1645 mm	2313 kg
SD200	200 kW	60	12.0TA	3	1800	1800	P	136"	53"	65"	5500 lbs
	200 kVA	50	12.0TA	3	1500	1500	P	3454 mm	1346 mm	1645 mm	2313 kg
SD230	230 kW	60	12.0TA	3	1800	1800	P	136"	53"	65"	5600 lbs
	230 kVA	50	12.0TA	3	1500	1500	P	3454 mm	1346 mm	1645 mm	2540 kg
SD250	250 kW	60	12.0TA	3	1800	1800	P	136"	53"	65"	5600 lbs
	250 kVA	50	12.0TA	3	1500	1500	P	3454 mm	1346 mm	1645 mm	2540 kg
SD275	275 kW	60	12.0TA	3	1800	1800	P	136"	53"	65"	5800 lbs
	275 kVA	50	12.0TA	3	1500	1500	P	3454 mm	1346 mm	1645 mm	2630 kg
SD300	300 kW	60	12.0TA	3	1800	1800	P	136"	53"	65"	5800 lbs
	300 kVA	50	12.0TA	3	1500	1500	P	3454 mm	1346 mm	1645 mm	2630 kg
SD350	350 kW	60	13.0TA	3	1800	1800	P	136"	53"	62.5"	5900 lbs
	350 kVA	50	13.0TA	3	1500	1500	P	3454 mm	1346 mm	1588 mm	2675 kg
SD400	400 kW	60	16.0TA	3	1800	1800	E + P	128"	50"	64"	7100 lbs
	420 kVA	50	16.0TA	3	1500	1500	E + P	3251 mm	1270 mm	1626 mm	3220 kg
SD500	500 kW	60	18.5TA	3	1800	1800	E + P	140"	52"	74"	7900 lbs
	500 kVA	50	18.5TA	3	1500	1500	E + P	3556 mm	1321 mm	1880 mm	3584 kg
SD625	625 kW	60	24.5TA	3	1800	1800	E + P	144"	58"	74"	8100 lbs
	659 kVA	50	24.5TA	3	1500	1500	E + P	3658 mm	1473 mm	1880 mm	3673 kg
SD800	800 kW	60	33.9TA	3	1800	1800	P	155"	58"	76"	12500 lbs
	860 kVA	50	33.9TA	3	1500	1500	P	3937 mm	1473 mm	1930 mm	5670 kg
SD1020	1020 kW	60	37.0TA	3	1800	1800	P	164"	72"	91"	14500 lbs
	1020 kVA	50	37.0TA	3	1500	1500	P	4169 mm	1813 mm	2306 mm	6577 kg

8kW TO 1020kW

*All 50Hz models are 0.8 Power Factor (including single phase models). 60 Hz single phase models are 1.0 (unity) Power Factor. Consult specification sheet for fuel, temperature and altitude deration.

¹T: Turbo-charged / A: Aftercooled / GD: Gear-driven
²B: brushes / E: exciter / P: permanent magnet pre-exciter

GAS SYSTEMS

Model	Power rating	Freq. (Hz)	Engine ¹ (liters)	Phase	Engine RPM	Generator RPM	Excitation ²	Length	Width	Height	Weight
SG010	10 kW	60	1.5	1,3	1800	1800	B	49.5"	26"	33.5"	690 lbs
	10 kVA	50	1.5	1,3	1500	1500	B	1255 mm	660 mm	851 mm	313 kg
SG015	15 kW	60	1.5	1,3	1800	1800	B	49.5"	26"	33.5"	690 lbs
	15 kVA	50	1.5	1,3	1500	1500	B	1255 mm	660 mm	851 mm	313 kg
SG020	20 kW	60	1.5	1,3	3600	3600	B	49.5"	26"	33.5"	900 lbs
	20 kVA	50	1.5	1,3	3000	3000	B	1255 mm	660 mm	851 mm	327 kg
SG020	20 kW	60	3.0	1,3	1800	1800	B or E + P	76"	34.5"	41"	1300 lbs
	20 kVA	50	3.0	1,3	1500	1500	B or E + P	1930 mm	876 mm	1041 mm	591 kg
SG025	25 kW	60	1.5	1,3	3600	3600	B or E + P	49.5"	26"	33.5"	900 lbs
	25 kVA	50	1.5	1,3	3000	3000	B or E + P	1257 mm	660 mm	851 mm	327 kg
SG025	25 kW	60	3.0	1,3	1800	1800	B or E + P	76"	34.5"	41"	1350 lbs
	25 kVA	50	3.0	1,3	1500	1500	B or E + P	1930 mm	876 mm	1041 mm	614 kg
SG035	35 kW	60	4.3	1,3	1800	1800	B or E + P	76"	34.5"	45"	1550 lbs
	35 kVA	50	4.3	1,3	1500	1500	B or E + P	1930 mm	876 mm	1143 mm	704 kg
SG045	45 kW	60	4.3	1,3	1800	1800	B or E + P	76"	34.5"	45"	1750 lbs
	45 kVA	50	4.3	1,3	1500	1500	B or E + P	1930 mm	876 mm	1143 mm	794 kg
SG060	60 kW	60	4.3GD	1,3	2300	1800	E + P	93"	37.5"	45"	1750 lbs
	60 kVA	50	4.3GD	1,3	2000	1500	E + P	2362 mm	953 mm	1143 mm	794 kg
SG065	65 kW	60	7.4	1,3	1800	1800	E + P	93"	37.5"	45"	1950 lbs
	65 kVA	50	7.4	1,3	1800	1500	E + P	2362 mm	953 mm	1143 mm	1361 kg
SG075	75 kW	60	4.3GD	1,3	3000	1800	E + P	93"	37.5"	45"	1950 lbs
	75 kVA	50	4.3GD	1,3	2500	1500	E + P	2362 mm	953 mm	1143 mm	885 kg
SG080	80 kW	60	7.4TA	1,3	1800	1800	E + P	93"	37.5"	45"	1950 lbs
	80 kVA	50	7.4TA	3	1800	1500	E + P	2362 mm	953 mm	1143 mm	885 kg
SG085	85 kW	60	7.4GD	1,3	2300	1800	E + P	110"	37.5"	45"	3000 lbs
	85 kVA	50	7.4GD	1,3	2300	1500	E + P	2794 mm	953 mm	1143 mm	1361 kg
SG100	100 kW	60	7.4TA	1,3	1800	1800	E + P	93"	37.5"	45"	1950 lbs
	100 kVA	50	7.4TA	3	1800	1500	E + P	2362 mm	953 mm	1143 mm	885 kg
SG100	100 kW	60	7.4GD	1,3	3000	1800	E + P	110"	37.5"	45"	3400 lbs
	100 kVA	50	7.4GD	3	2500	1500	E + P	2794 mm	953 mm	1143 mm	1542 kg
SG135	135 kW	60	13.3	3	1800	1800	P	136"	53"	60"	4600 lbs
	135 kVA	50	13.3	3	1500	1500	P	3454 mm	1346 mm	1524 mm	2087 kg
SG150	150 kW	60	7.4TA/GD	3	3000	1800	P	110"	37.5"	45"	4900 lbs
	150 kVA	50	7.4TA/GD	3	2500	1500	P	2794 mm	953 mm	1143 mm	2223 kg
SG150	150 kW	60	13.3TA	3	1800	1800	P	136"	53"	60"	4900 lbs
	150 kVA	50	13.3TA	3	1500	1500	P	3454 mm	1346 mm	1524 mm	2223 kg
SG175	175 kW	60	13.3TA	3	1800	1800	P	136"	53"	60"	5500 lbs
	175 kVA	50	13.3TA	3	1500	1500	P	3454 mm	1346 mm	1524 mm	2495 kg
SG200	200 kW	60	13.3TA	3	1800	1800	P	136"	53"	60"	5500 lbs
	200 kVA	50	13.3TA	3	1500	1500	P	3454 mm	1346 mm	1524 mm	2495 kg

10kW TO 200kW

*All 50Hz models are 0.8 Power Factor (including single phase models). 60 Hz single phase models are 1.0 (unity) Power Factor. Consult specification sheet for fuel, temperature and altitude deration.

¹T: Turbo-charged / A: Aftercooled / GD: Gear-driven
²B: brushes / E: exciter / P: permanent magnet pre-exciter

OVER 35 YEARS OF QUALITY AND SERVICE

Chances are, you won't need extra service from Generac after installation. But in the unlikely event that you do, you are backed in writing with the industry's best warranty and by a coast-to-coast service network of the largest and most experienced multi-line distributors in the nation - all of whom are staffed and trained to meet your needs.

Generac is the industry's most reliable single-source manufacturer. With 24-hour parts and field service, our nationwide Distribution Network stands ready to serve you whenever and wherever the need arises.

The best time for service is before trouble can begin. The Distribution Network's Start-Up and Training Assistance is designed to start you off right. In addition, the Network provides consultation on Installation and Systems Management. It even offers Preventive Maintenance and Service Programs to keep your standby power systems in perfect readiness.

And when you need to talk to the experts, Generac application engineers are on call at our Technical Center to help you with any problem.

So if you want a true understanding of a company's commitment to quality, measure its willingness to serve you after the sale. Then you will know why people in the industry and, more importantly, our customers refer to Generac and our nationwide Distribution Network as The Reliable Ones.



Generac's Waukesha, Wisconsin facility



Generac's Eagle, Wisconsin facility



Generac's Whitewater, Wisconsin facility

Authorized Distributor

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