

Heavy Duty Maximum Performance Package

for

Generac Standby Permanent Generators

Air-Cooled Series

Natural Gas or Propane. Air cooled. These are light-duty inexpensive generators for residential applications such as some group homes, and very small commercial applications.

QT Quiet Test Series - with QT Standard-Duty Package

Natural Gas or Propane. Liquid cooled. Supplies reliable power for basic applications that do not involve any Life Safety Concerns. Exceptionally quiet.

Examples of Life Safety concerns that may require a Generator Model QTA, SG or SD:

- | | |
|---|--|
| -Elevator | -Oxygen or life support equipment that requires electricity |
| -Fire pump/sprinkler system pump | -Industrial processes where current interruption would produce serious life safety or health hazards |
| -Fire detection and alarm systems | -Building over 75 feet tall |
| -Public Safety communications systems | -Health care loads greater than 120kW |
| -Essential ventilating and smoke removal systems | -Facility used as a community Emergency Shelter |
| -Life safety illumination (i.e. lighting allowing safe egress or exit signs without battery backup) | |

The price for our QTA, SG and SD Models includes a "Heavy-Duty Maximum Performance Package",

to ensure that you are able to operate and to accomplish your mission, even in an emergency that takes out utility power. Generac's base model incorporates a long list of equipment that may only be optional on other brands, and our Package adds major upgrades and essential accessories to better serve your needs. If these items had to be purchased and installed after-market, it would be far more expensive and in the meantime, the User would be lacking the additional protection. See the table on the next page for more information on what is included in our Package that may not be standard elsewhere.

QTA (or QT-NFPA) Quiet Test Series- with QTA Heavy Duty Maximum Performance Package

Natural Gas or Propane. Liquid cooled. For heavy-duty high-reliability applications that do not require custom equipment changes. Exceptionally quiet. Includes the equipment necessary to meet NFPA-110 Life Safety when properly installed.

SG Industrial Series- with SG Heavy Duty Maximum Performance Package

Natural Gas or Propane. Liquid cooled. For heaviest-duty highest-reliability applications. Custom equipment changes can be made. Includes the equipment necessary to meet NFPA-110 Life Safety when properly installed.

SD Industrial Series, Diesel- with SD Heavy Duty Maximum Performance Package

Similar to the "SG" Industrial Series, but diesel-powered. Liquid cooled. Custom equipment changes can be made. Includes the equipment necessary to meet NFPA-110 Life Safety when properly installed. Package includes upgraded larger engine size and a sub-base tank sized for a minimum of 24 hour run time on 100% load.

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Heavy Duty Maximum Performance Package Comparison

Specification/Feature*	Competitor's Industrial Base Model	BLP QT Kit (Does not apply to Base QT)	BLP QTA Package	BLP SG Package	BLP SD Package
Series	---	Quiet Test	QT-NFPA	Industrial	Diesel
Life Safety Equipped	No	No	Yes	Yes	Yes
Type of Fuel (specified on order)	Nat Gas/Prop, Diesel	Nat Gas or Propane	Nat Gas or Propane	Nat Gas or Propane	Diesel
Fuel Tank	No	N/A	N/A	N/A	Min. 24hr Run Time
Fuel Gauge	No	N/A	N/A	N/A	Included
EPA Certified Engine	No	YES	YES	YES	YES
Gas Flex Hose	No	Included	Included	Included	N/A
Tech Support	No	Standard	Standard	Standard	Standard
Freight	No	Included	Included	Included	Included
Main Line Circuit Breaker	No	Included	Included	Included	Included
Block/Coolant Heater	No	Included for Propane	Included	Included	Included
Outdoor Housing	No	Included	Included	Included	Included
High Cap. Battery , Factory Installed	No	Included for 60kW+	Included	Included	Included
Battery Charger , Factory Installed	No	Included	Included	Included	Included
Battery Heater	No	No	Included	Included	Included
Critical Grade Muffler	No	Included	Included	Included	Included
Excitation	Direct	Direct	Brushless	Permanent Magnet	Permanent Magnet
Engine Run Relay , Factory Installed	No	No	No	Included	Included
Isochronous Electronic Governor	No	Included	Included	Included	Included
21 Light Remote Annunciator Panel	No	No	Included	Included	Included
Digital Control Panel	No	Included	Included	Included	Included
UL2200 Listed	No	YES	YES	YES	YES
Closed Recovery Cooling System	No	Included	Included	Included	Included
Vibration Isolation	No	Included	Included	Included	Included
Automatic Alarms & Shutdowns	No	Included	Included	Included	Included
Advanced Wire Harness Design	No	Included	Included	Included	Included
Generac Manufactured Alternators	No	Included	Included	Included	Included
Solid State Sensing & Starting Control	No	Included	Included	Included	Included
Solid State Voltage Regulation	No	Included	Included	Included	Included
On Site Start Up	No	Included	Included	Included	Included
On Site Training During Start Up	No	Included	Included	Included	Included

N/A = Not Applicable

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Heavy Duty Maximum Performance Package Feature Descriptions for Generac Models QTA, SG, SD

FEATURE	DESCRIPTION
Life Safety Equipped	Generator as a whole is UL2200 Listed, and includes the equipment necessary, when properly installed, to qualify for the stringent NFPA 110 Level 1 Life Safety applications of the National Fire Protection Association.
Fuel (non-Diesel)	Natural gas or propane (whichever is ordered) operation, clean-burning for fewer exhaust emissions. No diesel odor, no need for expensive double-walled diesel tanks, no diesel fuel maintenance requirements, and no risk of environmental liability from diesel fuel spills. Natural gas can also eliminate refueling concerns, because natural gas is constantly supplied through the pipeline.
Fuel Tank (Diesel only)	Sized for a minimum of 24 hour run-time between re-fuelings (usually 24" deep), sub-base fuel tank mounts under the generator and includes the emergency vent that is required for safety. These fuel tanks are double-wall tanks for extra protection against leaks that could trigger a HazMat cleanup, and are UL142-Listed.
Fuel Gauge	A fuel-level sender included to show how much fuel is in the diesel tank, helping to avoid running out of fuel when you really need it. (Diesel only)
EPA Certified Engine	The Environmental Protection Agency establishes emissions requirements for generators. All of our Generac generators comply with EPA requirements and are EPA certified.
Gas Flex Hose	Necessary for the installation of the non-diesel generators in Sections 1-4. Prevents damage from vibration and movement.
Tech Support	Our Tech Support includes the experience of Better Light & Power and factory technicians.
Freight	Included are freight charges to any loading dock accessible by tractor trailer via land only in the 48 contiguous States. All deliveries are FOB destination with all transportation and handling charges paid by Better Light & Power. Delivery dates are estimated and cannot be guaranteed. Unloading, inside delivery, rigging, storage, and installation are not included.
Main Line Circuit Breaker	Factory-installed and UL-Listed. Stops the wires from overheating before they can cause a fire or other safety hazard, and is required to meet UL2200.
Block/Coolant Heater	Keeps diesel fuel flowing easily in cold weather so that the starting motor is able to start the generator even if the temperature goes below minus 20 degrees F. Helps propane or natural gas maintain proper vapor pressure.
Outdoor Housing	Enclosure to protect the generator from the weather, lockable to deter vandalism. Finished with highly-durable textured powder-coat paint that provides consistent coverage and better bonding to seams and exposed edges providing durability and a long-lasting, tough finish.
High Capacity Battery	A starting, high-capacity battery with factory installation is included with our Heavy Duty Maximum Performance Package.
Battery Charger	Factory-installed, high-capacity, dual-rate battery charger. This uses utility power to keep the battery charged even when the generator is not running.
Battery Heater	With built-in thermostat. When temperatures fall below an acceptable level, the thermostat activates the battery warmer maintaining optimum battery temperature for the best generator starting. Battery may require replacement more frequently.
Critical Grade Muffler	"Critical-grade exhaust silencer" - much quieter than Industrial grade or even Residential grade. Installed within the housing, for additional quieting and for best appearance.
Excitation	Strength of magnetic field, for voltage adjustment. Brushless Excitation eliminates the brush sparking in direct excitation, reducing safety hazards in some areas. Excitation is provided by a static system, requiring much less maintenance, and is automatically removed whenever the motor is out of step. Permanent Magnet Excitation provides sustained short circuit current for breaker coordination, increases motor starting capabilities, and enhances performance when load-induced harmonics are present.
Engine Run Relay	Factory-installed. When the engine is running, this allows the operation of a safety alarm or indicator, as well as the operation of other equipment, such as cooling louvers.

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Isochronous Electronic Governor	Constant speed control provides faster response to block loads and more consistent output frequency. All generators utilizing PowerManager control systems feature an isochronous governor.
Remote Annunciator Panel	With 21 indicator lights. Mounts inside an office showing in real time whether everything is functioning correctly or if something needs attention. Required to meet NFPA-110. Surface mounting will be supplied unless recessed mounting is specified.
Digital Control Panel	State of the art digital control of the generator. Full system monitoring, sensors, indicators and trouble shutdowns.
UL2200 Listed	UL listing verifies the kilowatt ratings of our generators and is your assurance that Generac standby systems meet safety, endurance, and performance standards.
Closed Recovery Cooling System	Closed, pressurized system virtually eliminates the introduction of air into the cooling system. Rust and fluid acidity are minimized, resulting in longer engine life.
Vibration Isolation	Standard vibration isolators virtually eliminate transmission of vibration from the unit to the mounting surface.
Automatic Alarms and Shutdowns	Generator functions are constantly monitored through a protective system that features solid state circuitry for reliability and long life. NFPA 110 required warnings and alarms provide alerts for a variety of safety and operational concerns. The system automatically shuts down in response to certain critical conditions such as high engine temperature, low coolant level, etc. All generators with PowerManager control systems meet NFPA 110 requirements for warnings, alarms and alerts.
Advanced Wire Harness Design	Generac's wire harness design with waterproof connectors assures reliable, repeatable interconnection between circuit components. Special sealed connectors protect against moisture, dust and environmental damage.
Generac Manufactured Alternators	Generac's revolving field alternators are fully insulated and self ventilating. They feature higher temperature Class H insulation, but are designed to operate at lower Class F temperature levels for longer life. Oversized alternators are available on many models for additional motor starting capacity.
Solid State Sensing and Starting Control	Provides the ultimate in engine protection. The magnetic pickup senses overspeed, automatically shuts down the engine, disconnects the starter motor and prevents re-engagement. The system also provides cyclic cranking for improved starting reliability, and cranking termination for started motor protection.
Solid State Voltage Regulation	Solid state frequency compensated voltage regulation that provides fast, optimized response to changing load conditions. Maximum motor starting capability is assured by electronically torque-matching the surge loads to the engine.
On Site Start Up	After installation, a technician visits your site for several hours to verify that installation was done according to factory requirements, to test many parameters, adjust them for best performance, and to validate the Warranty. NOT INCLUDED WITH BASE MODEL.
On Site Training	During the Start Up site visit by a factory authorized technician, training for the staff in basic operation and maintenance of the generator. NOT INCLUDED WITH BASE MODEL.

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