

8/10/13kVA

GUARDIAN® SERIES Residential Standby Generators Air-Cooled Gas Engine

INCLUDES:

- Two Line LCD Tri-Lingual Digital Nexus™ Controller (English/Spanish/French)
- Electronic Governor
- External Main Circuit Breaker, System Status & Maintenance Interval LED Indicators
- Sound Attenuated Enclosure
- Flexible Fuel Line
- Composite Mounting Pad
- Natural Gas or LP Gas Operation
- 1 Year/1000 Hour Limited Warranty

Standby Power Rating

Model 005914-1 (Steel) - 8 kVA 50Hz

Model 005915-1 (Steel) - 10 kVA 50Hz

Model 005916-1 (Steel) - 13 kVA 50Hz



FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of Generac's success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, allows you to choose Generac with the confidence that these systems will provide superior performance.
- **TEST CRITERIA:**
 - ✓ **PROTOTYPE TESTED**
 - ✓ **MOTOR STARTING ABILITY**
 - ✓ **SYSTEM TORSIONAL TESTED**
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION:** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.

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Engine

- Generac (OHVI) Design
Maximizes engine “breathing” for increased fuel efficiency. Plateau honed cylinder walls and plasma moly rings helps the engine run cooler, reducing oil consumption resulting in longer engine life.
- “Spiny-lok” cast iron cylinder walls
Rigid construction and added durability provide long engine life.
- Electronic ignition/spark advance
These features combine to assure smooth, quick starting every time.
- Full pressure lubrication system
Pressurized lubrication to all vital bearings means better performance, less maintenance and longer engine life. Now featuring a 2 year/200 hour oil change interval.
- Low oil pressure shutdown system
Superior shutdown protection prevents catastrophic engine damage due to low oil.
- High temperature shutdown
Prevents damage due to overheating.

Generator

- Revolving field
Allows for a smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
- Skewed stator
Produces a smooth output waveform for compatibility with electronic equipment.
- Displaced phase excitation
Maximizes motor starting capability.
- Automatic voltage regulation
Regulates the output voltage to $\pm 1\%$ prevents damaging voltage spikes.

Nexus™ Controls

- Auto/Off/Manual switch
Selects the operating mode.
- Utility voltage sensing
Constantly monitors utility voltage, setpoints 60% dropout, 80% pick-up, of standard voltage.
- Utility interrupt delay
Prevents nuisance start-ups of the engine, adjustable 10-30 seconds.
- Engine warm-up
Ensures engine is ready to assume the load, setpoint approximately 5 seconds.
- Engine cool-down
Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
- Programmable seven day exerciser
Operates engine to prevent oil seal drying and damage between power outages by running the generator for 12 minutes every week.
- Smart battery charger
Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature.
- Main Line Circuit Breaker
Protects generator from overload.
- Electronic governor
Maintains constant 50 Hz frequency.

Unit

- Weather protective enclosure
Ensures protection against mother nature. Hinged key locking roof panel for security. Lift-out front for easy access to all routine maintenance items. Electrostatically applied textured epoxy paint for added durability.
- Enclosed critical grade muffler
Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
- Small, compact, attractive
Makes for an easy, eye appealing installation.
- SAE
Sound attenuated enclosure ensures quiet operation.

Installation System

- 1' Flexible Fuel Line Connector
Easy Installation.
- Composite Mounting Pad

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Generator

Model	005914-1 (8 kVA)	005915-1 (10 kVA)	005916-1 (13 kVA)
Rated Maximum Continuous Power Capacity (LP)	8,000 VA*	10,000 VA*	13,000 VA*
Rated Maximum Continuous Power Capacity (NG)	7,000 VA**	10,000 VA**	13,000 VA**
Rated Voltage	220	220	220
Rated Maximum Continuous Load Current – 220 Volts, Single Phase	36.4 LP/31.8 NG	45.5 LP/45.5 NG	59 LP/59 NG
Main Line Circuit Breaker	40 Amp	50 Amp	60 Amp
Phase	1	1	1
Number of Rotor Poles	2	2	2
Rated AC Frequency	50Hz	50Hz	50Hz
Power Factor	1	1	1
Battery Requirement (not included)	Group 26R 12 Volts and 525 Cold-cranking Amperes Minimum		
Unit Weight (Pounds/Kilos)	387/175.4	425.5/193	445/201.8
Dimensions (L x W x H) Inches/mm	48 x 25 x 29/1218 x 638 x 732		
Sound output in dB(A) at 23 ft. with generator operating at normal load	60	60	60

Engine

	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Type of Engine	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Number of Cylinders	2	2	2
Displacement	530cc	992cc	992cc
Cylinder Block	Aluminum w/Cast Iron Sleeve	Aluminum w/Cast Iron Sleeve	Aluminum w/Cast Iron Sleeve
Valve Arrangement	Overhead Valve	Overhead Valve	Overhead Valve
Ignition System	Solid-state Magneto	Solid-state Magneto	Solid-state Magneto
Governor System	Electronic	Electronic	Electronic
Compression Ratio	9.5:1	9.5:1	9.5:1
Starter	12 Vdc	12 Vdc	12 Vdc
Oil Capacity Including Filter	1.7/1.6	1.9/1.8	1.9/1.8
Operating RPM	3,000	3,000	3,000
Fuel Consumption			
Natural Gas	ft ³ /hr.		
	1/2 Load	102 (2.89)	156 (4.42)
	Full Load	156 (4.42)	220 (6.23)
Liquid Propane	ft ³ /hr (gal/hr) [Liter/hr]		
	1/2 Load	46 (1.25)/1.3 (4.73)	58 (1.56)/1.64 (5.9)
	Full Load	70 (1.93)/1.98 (7.49)	84 (2.30)/2.38 (8.7)

*Required fuel pressure to generator fuel inlet at all load ranges - 5 to 7 inches of water column for natural gas, 11 to 14 inches of water column for LP gas

**Outputs are based upon values @ 1000 Btu per cubic feet with NG and 2520 Btu per cubic feet with LP

@ 35,314.7 Btu per cubic meter with NG and 88,993 Btu per cubic meter with LP

Controls

2-Line Plain Text LCD Display	Simple user interface for ease of operation.
Mode Switch	
-Auto	Automatic Start on Utility failure. 7 day exerciser.
-Off	Stops unit. Power is removed. Control and charger still operate.
-Manual/Test (start)	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Programmable start delay between 10-30 seconds	Standard
Engine Start Sequence	Cyclic cranking: 16 sec. on, 7 rest (90 sec. maximum duration).
Engine Warm-up	5 seconds
Engine Cool-Down	1 minute
Starter Lock-out	Starter cannot re-engage until 5 sec. after engine has stopped.
Smart Battery Charger	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard
Automatic Low Oil Pressure Shutdown	Standard
Overspeed Shutdown	Standard
High Temperature Shutdown	Standard
Overcrank Protection	Standard
Safety Fused	Standard
Low Battery Protection	Standard
50 Event Run Log	Standard
Future Set Capable Exerciser	Standard
Incorrect Wiring Protection	Standard
Internal Fault Protection	Standard
Common External Fault Capability	Standard

Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046, DIN6271 and AS/NZS CISPR 12:2009). * Maximum wattage and current are subject to and limited by such factors as fuel Btu content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases about 3.5 percent for each 1,000 feet above sea level; and also will decrease about 1 percent for each 6° C (10° F) above 16° C (60° F). Sound output ratings from certain points on the generator subject to change based on installation parameters.

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Model #	Product	Description
6212	Cold Weather Kit	If the temperature regularly falls below 32° F, install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
5839	Fascia Base Wrap Kit	The fascia base wrap snaps together around the bottom the new air-cooled generators. This offers a sleek, contoured appearance as well as offering protection from rodents and insects by covering the lifting holes located in the base.
5703	Paint Kit	Bisque Kit
5663 - 8kVA 5664 - 10 & 13kVA	Scheduled Maintenance Kit	Generac's scheduled maintenance kits provide all the hardware necessary to perform complete routine maintenance on a Generac automatic standby generator.
6621 - 8kVA 6620 - 10 & 13kVA	Extreme Cold Weather Kit	If the temperature regularly falls below 0 degrees F, install an extreme cold weather kit to maintain a non-freezing temperature in the engine breather. The kit consists of a breather warmer with thermostat built into the assembly.

dimensions

Design and specifications subject to change without notice. Dimensions shown are approximate. Contact your Generac dealer for certified drawings. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.

