

8/10/13 kVA

GUARDIAN® SERIES Residential Standby Generators Air-Cooled Gas Engine

INCLUDES:

- True Power[™] Electrical Technology
- Two Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/ French/Portuguese)
- Electronic Governor
- System Status & Maintenance Interval LED Indicators
- Sound Attenuated Enclosure
- Flexible Fuel Line Connector
- Direct-To-Dirt Composite Mounting Pad
- Natural Gas or LP Gas Operation
- 5 Year Limited Warranty
- Compatible with RTSI Transfer Switches Only
- Listed and Labeled by the Southwest Research Institute allowing installation as close as 18" (457 mm) to a structure.*

*Must be located away from doors, windows, and fresh air intakes and in accordance with local codes. https://assets.swri.org/library/DirectoryOfListedProducts/ConstructionIndustry/973 DoC 204 13204-01-01 Rev8.pdf

Standby Power Rating

Model G007044-0 (Aluminum - Bisque) - 8 kVA 50 Hz Model G007045-0 (Aluminum - Bisque) - 10 kVA 50 Hz Model G007046-0 (Aluminum - Bisque) - 13 kVA 50 Hz





*Only if located away from doors, windows and fresh air intakes, and unless otherwise directed by local codes.

FEATURES

- INNOVATIVE ENGINE DESIGN & RIGOROUS TESTING are at the heart of Generac's success in providing the most reliable generators possible. Generac's G-Force engine lineup offers added peace of mind and reliability for when you need it the most. The G-Force series engines are purpose built and designed to handle the rigors of extended run times in high temperatures and extreme operating conditions.
- O TEST CRITERIA:
 - ✓ PROTOTYPE TESTED✓ SYSTEM TORSIONAL TESTED
- √ NEMA MG1-22 EVALUATION
- ED ✓ MOTOR STARTING ABILITY

- O 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. Digital voltage regulation at $\pm 1\%$.
- SINGLE SOURCE SERVICE RESPONSE from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.



GENERAC[®]

features and benefits

Engine

8/10/13 kVA

Generac G- Force 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
 Electronic ignition/spark advance
 Full pressure lubrication system
 Full pressure lubrication system
 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.
 Rigid construction and added durability provide long engine life.
 These features combine to assure smooth, quick starting every time.
 Pressurized lubrication to all vital bearings means better performance, less maintenance and longer engine life. Now featuring up to a 2 year/200 hour oil change interval.

Low oil pressure shutdown system
 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 ±1% prevents damaging voltage spikes.

True Power Technology
 Less than 5% total harmonic distortion (THD).

Evolution™ Controls

Auto/Manual/Off illuminated buttons
 Selects the operating mode and provides easy, at-a-glance status indication in any condition.

Sealed, raised buttons
 Utility voltage sensing
 Constantly monitors utility voltage; defaults 156 V dropout, 190 V pick up.

Utility interrupt delay
 Prevents nuisance start-ups of the engine, adjustable 2-1500 seconds from the factory default setting of 5 seconds by a

qualified dealer.

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 exercise
 Operates engine to prevent oil seal drying and damage between power outages by running the generator for 12 minutes every

other week. Also offers a selectable setting for weekly or monthly operation providing flexibility and potentially lower fuel

costs to the owner.

Smart battery charger
 Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature.

Compatible with lead acid and AGM-style batteries.

Main line circuit breaker
 Electronic governor
 Protects generator from overload.
 Maintains constant 50 Hz frequency.

Unit

• SAE weather protective enclosure

Sound attenuated enclosures ensure quiet operation and protection against mother nature, withstanding winds up to 150

mph. 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, as close as 18" away from a building.

Installation System

1 ft (305 mm) flexible fuel line connector Absorbs any generator vibration when connected to rigid pipe.

Direct-to-dirt composite mounting pad
 Complex lattice design prevents settling or sinking of the generator system.

Integral sediment trap
 Prevents particles and moisture from entering the fuel regulator and engine, prolonging engine life.

8/10/13 kVA

GENERAC specifications

Generator					
Model		G007044-0 (8 kVA)	G007045-0 (10 kVA)	G007046-0 (13 kVA)	
Rated Maximum Continuous F	Power Capacity (LP)	8,000 VA*	10,000 VA*	13,000 VA*	
Rated Maximum Continuous F	Power Capacity (NG)	7,000 VA*	10,000 VA*	13,000 VA*	
Rated Voltage		220	220	220	
Rated Maximum Continuous L	Load Current – 220 Volts (LP/NG)	36.4/31.8	45.5/45.5	59.1/59.1	
Main Line Circuit Breaker		40 Amp	50 Amp	63 Amp	
Phase		1	1	1	
Number of Rotor Poles		2	2	2	
Rated AC Frequency		50 Hz	50 Hz	50 Hz	
Power Factor		1.0	1.0	1.0	
Battery Requirement (not incl	uded)	12 Volts, Group 26R	540 CCA Minimum or Group 35AGN	1 650 CCA Minimum	
Unit Weight (lb/kg)		341/155	389/176	425/193	
Dimensions (L x W x H) in/mm			48 x 25 x 29/1218 x 638 x 732		
Sound output in dB(A) at 23 f	t (7 m) with generator operating at normal load**	60	60	60	
Engine					
Type of Engine		GENERAC G-FORCE 500 SERIES	GENERAC G-FORCE 1000 SERIES	GENERAC G-FORCE 1000 SERIES	
Number of Cylinders		2	2	2	
Displacement		530 cc	999 cc	999 cc	
Cylinder Block			Aluminum w/ Cast Iron Sleeve		
Valve Arrangement		Overhead Valve	Overhead Valve	Overhead Valve	
Ignition System		Solid-state w/ Magneto	Solid-state w/ Magneto	Solid-state w/ 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 qt/1.6 L	1.9 qt/1.8 L	1.9 qt/1.8 L	
Operating rpm		3,000	3,000	3,000	
Fuel Consumption					
Natural Gas	ft³/hr (m³/hr)				
	1/2 Load	87 (2.46)	121 (3.43)	134 (3.79)	
	Full Load	138 (3.91)	185 (5.24)	208 (5.89)	
Liquid Propane	ft ³ /hr (gal/hr) [l/hr]	,	(- /	,	
	1/2 Load	31 (0.86) [3.25]	40 (1.11) [4.20]	50 (1.39) [5.24]	
	Full Load	55 (1.51) [5.70]	67 (1.85) [6.99]	87 (2.39) [9.03]	
• •	red for full load. Required fuel pressure to generator fuel	inlet at all load ranges - 3.5-7" water col	umn (7-13 mm mercury) for na	tural gas, 10-12" water column	
(19-22 mm mercury) for I					
Outputs are based upon v	alues @ 1000 BTU per cubic feet with NG and 2500 BT		LID.		
Controls	@ 37.26 Megajoules per cubic meter with NG and	u 93.10 Megajoules per cubic meter wit	IILP		
		2:			
•	2-Line Plain Text Multilingual LCD Display		Simple user interface for ease of operation.		
Mode Buttons:Auto			atic Start on Utility failure. 7 day exe		
Manual		Start with starter contro	ol, unit stays on. If utility fails, transf	er to load takes place.	

Controls	
2-Line Plain Text Multilingual LCD Display	Simple user interface for ease of operation.
Mode Buttons:Auto	Automatic Start on Utility failure. 7 day exerciser.
Manual	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Off	Stops unit. Power is removed. Control and charger still operate.
Ready to Run/Maintenance Messages	Standard
Engine Run Hours Indication	Standard
Programmable start delay between 2-1500 seconds	Standard (programmable by dealer only)
Utility Voltage Loss/Return to Utility Adjustable (Brownout Setting)	From 140-156 V/175-198 V
Future Set Capable Exerciser/Exercise Set Error Warning	Standard
Run/Alarm/Maintenance Logs	50 Events Each
Engine Start Sequence	Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration).
Starter Lock-out	Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger	Standard
Charger Fault/Missing AC Warning	Standard
Low Battery/Battery Problem Protection and Battery Condition Indication	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard
Under-Frequency/Overload/Stepper Overcurrent Protection	Standard
Safety Fused/Fuse Problem Protection	Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown	Standard
Overcrank/Overspeed (@ 72 Hz)/rpm Sense Loss Shutdown	Standard
High Engine Temperature Shutdown	Standard
Internal Fault/Incorrect Wiring Protection	Standard
Common External Fault Capability	Standard
Field Upgradable Firmware	Standard

^{**}Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters. 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, IS03046 and DIN6271). * Maximum kilovolt amps and current are subject to and limited by such factors as fuel Btu/megajoule content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases about 3.5 percent for each 1,000 feet (304.8 meters) above sea level; and also will decrease about 1 percent for each 6 °C (10 °F) above 16 °C (60 °F).

4 of 4

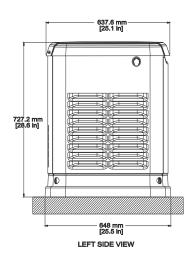
8/10/13 kVA

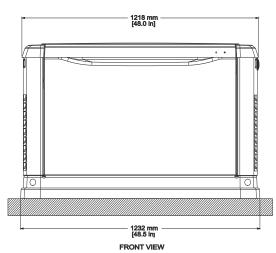
available accessories

Model #	Product	Description
G007101-0	Battery Pad Warmer	The pad warmer rests under the battery. Recommended for use if the temperature regularly falls below 0°F. (Not necessary for use with AGM-style batteries).
G007102-0	Oil Warmer	Oil warmer slips directly over the oil filter. Recommended for use if the temperature regularly falls below $0^{\circ}F$.
G007027-0	Fascia Base Wrap Kit	The fascia base wrap snaps together around the bottom of 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.
G005703-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
G006483-0 - 8 kVA G006485-0 - 10 & 13 kVA	Scheduled Maintenance Kit	Generac's scheduled maintenance kits provide all the hardware necessary to perform complete routine maintenance on a Generac automatic standby generator.

dimensions & UPCs

Dimensions shown are approximate. Refer to installation manual for exact dimensions. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.





Model	UPC
G007044-0	696471070446
G007045-0	696471070453
G007046-0	696471003222

