

GUARDIAN[®] SERIES Residential Standby Generators Air-Cooled Gas Engine

20/22/24 kW

1 of 6

INCLUDES:

● True Power™ Electrical Technology

20/22/24 kW

- Two-line multilingual digital LCD Evolution[™] controller (English/Spanish/French/Portuguese)
- 200 amp service rated transfer switch available
- Electronic governor
- Standard Wi-Fi[®] connectivity
- System status & maintenance interval LED indicators
- Sound attenuated enclosure
- Flexible fuel line connector
- Natural gas or LP gas operation
- 5 Year limited warranty
- Listed and labeled for installation as close as 18 in (457 mm) to a structure.*

*Must be located away from doors, windows, and fresh air intakes and in accordance with local codes.

Standby Power Rating

G007038-1, G007039-1, G007038-3, G007039-3 (Aluminum - Bisque) - 20 kW 60 Hz G007042-2, G007043-2, G007042-3, G007043-3 (Aluminum - Bisque) - 22 kW 60 Hz G007209-0, G007210-1 (Aluminum - Bisque) - 24 kW 60 Hz





Note: CETL or CUL certification only applies to unbundled units and units packaged with limited circuit switches. Units packaged with the Smart Switch are ETL or UL certified in the USA only.

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 it's needed 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 TRUE POWER™ ELECTRICAL TECHNOLOGY: Superior harmonics and sine wave form produce less than 5% Total Harmonic Distortion for utility quality power. This allows confident operation of sensitive electronic equipment and micro-chip based appliances, such as variable speed HVAC systems.
- O TEST CRITERIA:
 - PROTOTYPE TESTED
 - SYSTEM TORSIONAL TESTED
- NEMA MG1-22 EVALUATION Motor starting ability
- O MOBILE LINK[®] CONNECTIVITY: FREE with select Guardian Series Home standby generators, Mobile Link Wi-Fi allows users to monitor generator status from any-where in the world using a smartphone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account to an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage.

- 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 TRANSFER SWITCHES: Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line is offered with its own transfer systems and controls for total system compatibility.



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Engine

- Generac G-Force design
- "Spiny-lok" cast iron cylinder walls
- Electronic ignition/spark advance
- Full pressure lubrication system
- Low oil pressure shutdown system
- High temperature shutdown

Generator

- Revolving field
- Skewed stator
- Displaced phase excitation
- Automatic voltage regulation
- UL 2200 listed

Transfer Switch (if applicable)

- Fully automatic
- NEMA 3R
- Integrated load management technology
- Remote mounting

Evolution™ Controls

- AUTO/MANUAL/OFF illuminated buttons
- Two-line multilingual LCD
- Sealed, raised buttons
- Utility voltage sensing
- Generator voltage sensing
- Utility interrupt delay
- Engine warm-up
- Engine cool-down
- Programmable exercise
- Smart battery charger
- Main line circuit breaker
- Electronic governor

Unit

- SAE weather protective enclosure
- Enclosed critical grade muffler
- Small, compact, attractive

Features and Benefits

rings help the engine run cooler, reducing oil consumption and 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.
Shutdown protection prevents catastrophic engine damage due to low oil.
Prevents damage due to overheating.
Allows for a smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
Produces a smooth output waveform for compatibility with electronic equipment.
Maximizes motor starting capability.

Maximizes engine "breathing" for increased fuel efficiency. Plateau honed cylinder walls and plasma moly

Regulating output voltage to $\pm 1\%$ prevents damaging voltage spikes.

For your safety.

Transfers vital electrical loads to the energized source of power.

- Can be installed inside or outside for maximum flexibility.
- Capability to manage additional loads for efficient power management.
- Mounts near an existing distribution panel for simple, low-cost installation.

Selects the operating mode and provides easy, at-a-glance status indication in any condition.

- Provides homeowners easily visible logs of history, maintenance, and events up to 50 occurrences.
- Smooth, weather-resistant user interface for programming and operations.
- Constantly monitors utility voltage, setpoints 65% dropout, 80% pick-up, of standard voltage.
- Constantly monitors generator voltage to verify the cleanest power delivered to the home.
- Prevents nuisance start-ups of the engine, adjustable 2-1500 seconds from the factory default setting of 5 seconds by a qualified dealer.
- Verifies engine is ready to assume the load, setpoint approximately 5 seconds.
- Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
- Operates engine to prevent oil seal drying and damage between power outages by running the generator for 5 minutes every other week. Also offers a selectable setting for weekly or monthly operation providing flexibility and potentially lower fuel costs to the owner.
- Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature. Compatible with lead acid and AGM-style batteries.
- Protects generator from overload.
- Maintains constant 60 Hz frequency.

Sound attenuated enclosures ensure quiet operation and protection against mother nature, withstanding winds up to 150 mph (241 km/h). 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. Quiet, critical grade muffler is mounted inside the unit to prevent injuries.

Makes for an easy, eye appealing installation, as close as 18 in (457 mm) away from a structure.

GENERAC

Features and Benefits

20/22/24 kW

Installation System

- 14 in (35.6 cm) flexible fuel line connector
- Integral sediment trap

Connectivity (Wi-Fi equipped models only)

- Ability to view generator status
- Ability to view generator Exercise/Run and Total Hours
- Ability to view generator maintenance information
- Monthly report with previous month's activity
- Ability to view generator battery information
- Weather information

Listed ANSI Z21.75/CSA 6.27 outdoor appliance connector for the required connection to the gas supply piping.

- Meets IFGC and NFPA 54 installation requirements.
- Monitor generator with a smartphone, tablet, or computer at any time via the Mobile Link application for complete peace of mind.
- Review the generator's complete protection profile for exercise hours and total hours.
- Provides maintenance information for the specific model generator when scheduled maintenance is due.
- Detailed monthly reports provide historical generator information.
 - Built in battery diagnostics displaying current state of the battery.
 - Provides detailed local ambient weather conditions for generator location.

20/22/24 kW

GENERAC

Specifications

		0007030 4	0007040 0	0007030 3	C007040 0	0007000 0
Model		G007038-1 G007039-1 (20 kW)	G007042-2 G007043-2 (22 kW)	G007038-3 G007039-3 (20 kW)	G007042-3 G007043-3 (22 kW)	G007209-0 G007210-1 (24 kW)
Rated maximum continuous po	wer capacity (LP)	20,000 Watts*	22,000 Watts*	20,000 Watts*	22,000 Watts*	24,000 Watts
Rated maximum continuous po		18.000 Watts*	19.500 Watts*	18,000 Watts*	19.500 Watts*	21,000 Watts
Rated voltage		rojo o mano	rejecc mano	240	10,000 11410	E 1,000 Maile
Rated maximum continuous loa	ad current – 240 volts (LP/NG)	83.3 / 75.0	91.7 / 81.3	83.3 / 75.0	91.7 / 81.3	100 / 87.5
Total Harmonic Distortion		00107 1010	0111 / 0110	Less than 5%	01117 0110	1007 0110
Main line circuit breaker		90 amp	100 amp	90 amp	100 amp	100 amp
Phase		oo amp	roo amp	1	i ee amp	i oo ump
Number of rotor poles				2		
Rated AC frequency				60 Hz		
Power factor				1.0		
Battery requirement (not includ	led)	12 Vo	lts, Group 26R 540 CO	CA minimum or Group	35AGM 650 CCA mi	nimum
Unit weight (Ib / kg)		448 / 203	466 / 211	436 / 198	445 / 202	455 / 206
Dimensions (L x W x H) in / cm	1	1107 200		25 x 29 / 121.9 x 63.5		100 / 200
, ,	(7 m) with generator operating at normal load**	67	67	67	67	67
1 ()	(7 m) with generator in Quiet-Test [™] low-speed exercise mode**	55	57	55	57	57
Exercise duration		00	01	5 min	51	51
				0 11111		
Engine			0.51		No	
Engine type			GEN	ERAC G-Force 1000 S	berres	
Number of cylinders				2		
Displacement				999 cc		
Cylinder block			Alu	minum w/ cast iron sl	eeve	
Valve arrangement				Overhead valve		
Ignition system			;	Solid-state w/ magnet	0	
Governor system				Electronic		
Compression ratio				9.5:1		
Starter				12 VDC		
Oil capacity including filter				Approx. 1.9 qt / 1.8 L		
Operating rpm				3,600		
Fuel consumption						
Natural gas '	ft³/hr (m³/hr)					
	1/2 Load	204 (5.78)	228 (6.46)	164 (4.64)		(5.75)
Linuid areas	Full Load	301 (8.52)	327 (9.26)	287 (8.13)	300	(8.66)
Liquid propane	ft ³ /hr (gal/hr) [L/hr] 1/2 Load	87 (2.37) [8.99]	92 (2.53) [9.57]	86 (2.36) [8.95]	92 (2 5	3) [9.57]
	Full Load		142 (3.90) [14.77]	136 (3.74) [14.15]		0) [14.77]
			n water column (0.87-	-1.74 kPa) for NG. 10	-12 in water column (2.49–2.99 kPa) f
Note: Fuel pipe must be size		load ranges - 3.5–7 ir				
Note: Fuel pipe must be size gas. For BTU content, multiply	d for full load. Required fuel pressure to generator fuel inlet at all ft ³ /hr x 2500 (LP) or ft ³ /hr x 1000 (NG). For Megajoule content, mu	load ranges - 3.5–7 ir Itiply m³/hr x 93.15 (L	P) or m ³ /hr x 37.26 (N	IG).		
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**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, ISO3046 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 approximately 3.5% for each 1,000 ft (304.8 m) above sea level; and also will decrease approximately 1% for each 10 °F (6 °C).

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20/22/24 kW

Service Rated Automatic Transfer Switch Features

- ۲ Intelligently manages up to four air conditioner loads with no additional hardware.
- Up to eight additional large (240 VAC) loads can be managed when used in conjunction • with Smart Management Modules (SMMs).
- Electrically operated, mechanically-held contacts for fast, clean connections. ۲
- Main breakers are rated for 80% continuous load. •
- 2-pole, 250 VAC contactors. ۲
- Service equipment rated, dual coil design. ۲
- Rated for both aluminum and copper conductors. ۲
- Main contacts are silver plated or silver alloy to resist welding and sticking. •
- NEMA/UL 3R aluminum outdoor enclosure allows for indoor or outdoor mounting flexibility. ۲

Dimensions

	200 Amps 120/240, 1ø Open Transition Service Rated				
	Hei	ight	Wi	Depth	
	H1	H2	W1	W2	Depui
in	26.8	30.1	10.5	13.5	6.9
cm	67.95	76.43	26.67	34.18	17.5

Wire Ranges			
Conductor Lug	Neutral Lug	Ground Lug	
250 MCM - #6	350 MCM - #6	2/0 - #14	

G0070 Model G0070 No. of poles Current rating (amps) Voltage rating (VAC) Utility voltage monitor (fixed)* -Pick-up -Dropout Return to Utility* ETL or UL listed

Switch Options

20/22/24 kW

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039-1, G007039-3 (20 kW)				
043-2, G007043-3 (22 kW)				
G007210-1 (24 kW)				
2				
200				
120/240, 1Ø				
80% 65%				
Approx. 13 sec				
Standard				
NEMA/UL 3R				
22,000				

250 MCM - #6

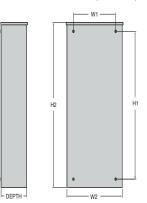
*Function of Evolution controller

Enclosure type

Lug range

Circuit breaker protected

Exercise can be set to weekly, bi-weekly, or monthly



GENERAC

20/22/24 kW

6 of 6

Model #	Product	Description
G007101-0	Battery Pad Warmer	Pad warmer rests under the battery. Recommended for use if temperature regularly falls below 0 °F (-18 °C). (Not nec- essary for use with AGM-style batteries).
G007102-0	Oil Warmer	Oil warmer slips directly over the oil filter. Recommended for use if temperature regularly falls below 0 °F (-18 °C).
G007103-1	Breather Warmer	Breather warmer is for use in extreme cold weather applications. For use with Evolution controllers only in climates where heavy icing occurs.
G005621-0	Auxiliary Transfer Switch Contact Kit	The auxiliary transfer switch contact kit allows the transfer switch to lock out a single large electrical load that may not be needed. Not compatible with 50 amp pre-wired switches.
G007027-0 - Bisque	Fascia Base Wrap Kit (Standard on 22/24 kW)	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 - Bisque	Touch-Up Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch up the paint to protect from future corrosion. The touch-up paint kit includes the necessary paint to correctly maintain or touch up a generator enclosure.
G006485-0	Scheduled Maintenance Kit	Generac's scheduled maintenance kit provides all the items necessary to perform complete routine maintenance on a Generac automatic standby generator (oil not included).
G007005-0	Wi-Fi LP Tank Fuel Level Monitor	The Wi-Fi enabled LP tank fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in verifying the generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify users when the LP tank is in need of a refill.
G007000-0 (50 amp) G007006-0 (100 amp)	Smart Management Module	Smart Management Modules (SMM) are used to optimize the performance of a standby generator. It manages large elec- trical loads upon startup and sheds them to aid in recovery when overloaded. In many cases, using SMM's can reduce the overall size and cost of the system.
G007169-0 - 4G LTE G007170-0 - Wi-Fi/ Ethernet	Mobile Link [®] Cellular Accessories	The Mobile Link family of Cellular Accessories allow users to monitor generator status from anywhere in the world, using a smart phone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account with an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage.
G007220-0 - Bisque	Base Plug Kit	Base plugs snap into the lifting holes on the base of air-cooled home standby generators. This offers a sleek, contoured appearance, as well as offers protection from rodents and insects by covering the lifting holes located in the base. Kit contains four plugs, sufficient for use on a single air-cooled home standby generator.

Model	UPC
G007038-1	696471074185
G007038-3	696471074185
G007039-1	696471074192
G007039-3	696471074192
G007042-2	696471074208
G007042-3	696471074208
G007043-2	696471074215
G007043-3	696471074215
G007209-0	696471071511
G007210-1	696471084801

727.2 mm 1218 mm 727.2 mm 148.0 inj 1

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



Dimensions & UPCs

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