

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

G007209-0, G007210-0 (Aluminum - Bisque) - 24 kW 60 Hz

Standby Power Rating

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 by the Southwest Research Institute allowing 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.
 https://assets.swri.org/library/DirectoryOfListedProducts/ ConstructionIndustry/973 DoC 204 13204-01-01 Rev9.pdf



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



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
- 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.

- 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 MAXI-MUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±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 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.
- O PWRVIEW[™] TRANSFER SWITCH: The Generac PWRview Automatic Transfer Switch integrates the PWRview energy monitor to provide real-time energy consumption data that can help lower a home's electricity bill. Using a convenient mobile app, homeowners can access energy usage and alert information while under utility power or generator power. The PWRview energy monitor is a simple to use and low cost tool which helps save money over the life of the generator. Included with model G007210-0.



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20/22/24 kW

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

PWRview Transfer Switch (if applicable)

- PWRview energy monitor
- Ability to view real-time energy consumption data
- PWRview mobile app

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

Energy usage at-a-glance.

For your safety.

- Better understand the home's energy profile.
- Access daily energy intelligence and insights.
- 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.

GENERAC

Features and Benefits

Prevents damage due to overheating.
Allows for a smaller, light weight unit that operates 25% more efficiently than a revolving armature generate
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

Pressurized lubrication to all vital bearings means better performance, less maintenance, and longer engine

rings help the engine run cooler, reducing oil consumption and resulting in longer engine life.

Rigid construction and added durability provide long engine life.

life. Now featuring up to a 2 year/200 hour oil change interval.

These features combine to assure smooth, quick starting every time.

Shutdown protection prevents catastrophic engine damage due to low oil.

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

Transfers vital electrical loads to the energized source of power.

Capability to manage additional loads for efficient power management.

Mounts near an existing distribution panel for simple, low-cost installation.

Can be installed inside or outside for maximum flexibility.

20/22/24 kW

Unit

GENERAC

Features a

NERAC	M
nd Benefits	:/24 k
ner nature, withstanding out front for easy access	20/22

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 SAE weather protective enclosure Enclosed critical grade muffler 	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.		
• Small, compact, attractive	Makes for an easy, eye appealing installation, as close as 18 in (457 mm) away from a structure.		
Installation System			
• 14 in (35.6 cm) flexible fuel line connector	Listed ANSI Z21.75/CSA 6.27 outdoor appliance connector for the required connection to the gas supply piping.		
Integral sediment trap	Meets IFGC and NFPA 54 installation requirements.		
Connectivity (Wi-Fi equipped models only)			
• Ability to view generator status	Monitor generator with a smartphone, tablet, or computer at any time via the Mobile Link application for complete peace of mind.		
• Ability to view generator Exercise/Run and Total Hours	Review the generator's complete protection profile for exercise hours and total hours.		
• Ability to view generator maintenance information	Provides maintenance information for the specific model generator when scheduled maintenance is due.		
 Monthly report with previous month's activity 	Detailed monthly reports provide historical generator information.		
Ability to view generator battery information	Built in battery diagnostics displaying current state of the battery.		
Weather information	Provides detailed local ambient weather conditions for generator location.		

20/22/24 kW

GENERAC

Specifications

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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 G007210-0 (24 kW)
Rated maximum continuous po	ower 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	Juice capacity (NG)	10,000 Walls	15,500 Walls	240	15,500 Walls	21,000 Walls
•	pad 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		00.07 10.0	51.7 / 61.6	Less than 5%	51.17 01.0	100 / 01.0
Main line circuit breaker		90 amp	100 amp	90 amp	100 amp	100 amp
Phase		30 amp	roo amp	30 amp	roo amp	TOU amp
Number of rotor poles				2		
Rated AC frequency				60 Hz		
Power factor				1.0		
Battery requirement (not includ	(bab	12 \/o	lts, Group 26R 540 CO		354GM 650 CC4 mir	nimum
Unit weight (lb / kg)	led)	448 / 203	466 / 211	436 / 198	445 / 202	455 / 206
Dimensions (L x W x H) in / cr	m	440 / 200		430 / 190 25 x 29 / 121.9 x 63.5		433 / 200
, ,	(7 m) with generator operating at normal load**	67	67	67	67	67
1 17	(7 m) with generator in Quiet-Test™ low-speed exercise mode**	55	57	55	57	57
Exercise duration	(7 m) with generator in Quiet-rest tow-speed exercise mode	00	57	5 min	JI	57
				JIIIII		
Engine			_			
Engine type			GEN	ERAC G-Force 1000 S	eries	
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)
Charled annual an	Full Load	301 (8.52)	327 (9.26)	287 (8.13)	306	(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]
Noto: Fuel nine must be size	ed for full load. Required fuel pressure to generator fuel inlet at all					
THUE FUEL HIDE HIDSI DE SIZE		ioda ialigoo olo i li	D) or m ³ /br v 27 26 /N	IG).		2110 2100 14 4) 1
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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).

4 of 6

20/22/24 kW

Service Rated Automatic Transfer Switch Features

- 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.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2-pole, 250 VAC contactors.
- Service equipment rated, dual coil design.
- Rated for both aluminum and copper conductors.
- 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.

Dimensions

	200 Amps 120/240, 1ø Open Transition Service Rated				
	Hei	ight	Wi	Depth	
	H1	H2	W1	W2	Deptil
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

PWRview Automatic Transfer Switch Features

- Integrated PWRview monitor provides real-time energy usage data through PWRview app.
- 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.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2-pole, 250 VAC contactors.
- Service equipment rated, dual coil design.
- Rated for both aluminum and copper conductors.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 3R aluminum outdoor enclosure allows for indoor or outdoor mounting flexibility.
- Heavy duty Generac Contactor is an ETL recognized device.

Dimensions

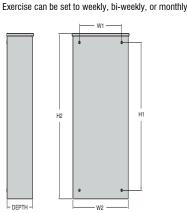
	200 Amps 120/240, 1ø Open Transition Service Rated				
	Height		Wi	Depth	
	H1	H2	W1	W2	Deptil
in	26.8	30.1	10.5	13.5	6.9
cm	67.95	76.43	26.67	34.18	17.5

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

Model	G007039-1, G007039-3 (20 kW) G007043-2, G007043-3 (22 kW)
No. of poles	2
Current rating (amps)	200
Voltage rating (VAC)	120/240, 1Ø
Utility voltage monitor (fixed)* -Pick-up -Dropout	80% 65%
Return to Utility*	Approx. 13 sec
Exercises bi-weekly for 5 minutes*	Standard
ETL or UL listed	Standard
Enclosure type	NEMA/UL 3R
Circuit breaker protected	22,000

Lug range

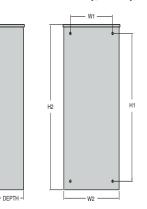
*Function of Evolution controller



Model	G007210-0 (24 kW)
No. of poles	2
Current rating (amps)	200
Voltage rating (VAC)	120/240, 1Ø
Utility voltage monitor (fixed)* -Pick-up -Dropout	80% 65%
Return to Utility*	Approx. 13 sec
Exercises bi-weekly for 5 minutes*	Standard
ETL or UL listed	Standard
Enclosure type	NEMA 3R
Circuit breaker protected	22,000
Lug range	250 MCM - #6

*Function of Evolution controller

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



GENERAC

250 MCM - #6

Switch Options

GENERAC

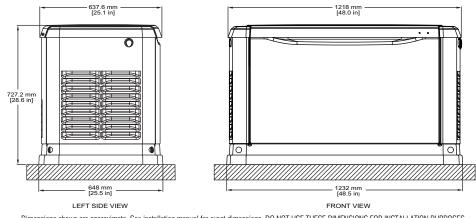
20/22/24 kW

7			
20/2	Model #	Product	Description
2	G005819-0	26R Wet Cell Battery	Every standby generator requires a battery to start the system. Generac offers the recommended 26R wet cell battery for use with all air-cooled standby product (excluding PowerPact [®]).
	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).
of 6	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

		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.

Dimensions & UPCs

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
G007210-0	696471078220



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

