

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
- 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

- ۲ Generac G-Force design
- "Spiny-lok" cast iron cylinder walls
- . Electronic ignition/spark advance
- Full pressure lubrication system
- ۲ 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 ۲
- Electronic governor ۲

Unit

- SAE weather protective enclosure
- Enclosed critical grade muffler ۲
- Small, compact, attractive

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

GENERA

Features and Benefits

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

Generator Model		G007038-1	G007042-2	G007038-3	G007042-3	G007209-0
		G007039-1 (20 kW)	G007043-2 (22 kW)	G007039-3 (20 kW)	G007043-3 (22 kW)	G007210-1 (24 kW)
Rated maximum continuous p	nower canacity (LP)	20,000 Watts*	22,000 Watts*	20,000 Watts*	22,000 Watts*	24,000 Watts'
Rated maximum continuous p		18,000 Watts*	19,500 Watts*	18,000 Watts*	19,500 Watts*	21,000 Watts
Rated voltage		10,000 11443	10,000 11440	240	rejecce mano	E 1,000 Hallo
*	oad 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				Less than 5%		
Main line circuit breaker		90 amp	100 amp	90 amp	100 amp	100 amp
Phase		·		1		
Number of rotor poles				2		
Rated AC frequency				60 Hz		
Power factor				1.0		
Battery requirement (not inclu	ided)	12 Vo	olts, Group 26R 540 CO	CA minimum or Group	35AGM 650 CCA min	nimum
Unit weight (Ib / kg)		448 / 203	466 / 211	436 / 198	445 / 202	455 / 206
Dimensions (L x W x H) in / c	m		48 x 2	5 x 29 / 121.9 x 63.5	x 73.7	
Sound output in dB(A) at 23 f	t (7 m) with generator operating at normal load**	67	67	67	67	67
Sound output in dB(A) at 23 f	t (7 m) with generator in Quiet-Test™ low-speed exercise mode**	55	57	55	57	57
Exercise duration				5 min		
Engine						
Engine type			GENI	ERAC G-Force 1000 S	Series	
Number of cylinders			GEN	2		
Displacement				999 cc		
Cylinder block			Alu	minum w/ cast iron sle	eve	
Valve arrangement			7 11 41	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				0,000		
Natural gas	ft³/hr (m³/hr)					
	1/2 Load	204 (5.78)	228 (6.46)	164 (4.64)		(5.75)
Liquid propago	Full Load ft ³ /hr (gal/hr) [L/hr]	301 (8.52)	327 (9.26)	287 (8.13)	300	(8.66)
Liquid propane	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	130 (3.56) [13.48]	142 (3.90) [14.77]	136 (3.74) [14.15]	142 (3.9	0) [14.77]
	red for full load. Required fuel pressure to generator fuel inlet at all				-12 in water column (2.49–2.99 kPa) fo
gas. For BTU content, multiply	y ft ³ /hr x 2500 (LP) or ft ³ /hr x 1000 (NG). For Megajoule content, mu	ıltiply m³/hr x 93.15 (L	.P) or m³/hr x 37.26 (N	G).		
Controls						
Two-line plain text multilingua	al LCD		Simple us	er interface for ease of	operation.	
Mode buttons: AUTO		Automat	ic start on utility failure			exerciser.
MANUAL		Start w	vith starter control, unit	stavs on. If utility fails	s. transfer to load take	s place.
OFF				removed. Control and		
Ready to Run/Maintenance m	essages			Standard	5 1	
Engine run hours indication	5			Standard		
Programmable start delay bet	ween 2–1500 seconds		Standard	(programmable by de	aler only)	
* /	Utility adjustable (brownout setting)			m 140-171 V / 190-2		
Future Set Capable Exerciser/				Standard		
Run/Alarm/Maintenance logs				50 events each		
Engine start sequence			Cvclic cranking: 16	sec on, 7 rest (90 sec	maximum duration).	
Starter lock-out			, 0	gage until 5 sec after	,	
Smart Battery Charger				Standard	Juin and arophodi	
Charger Fault/Missing AC wa	rning			Standard		
0 . 0	Protection and Battery Condition indication			Standard		
	with Over and Under Voltage Protection			Standard		
Under-Frequency/Overload/Si	•			Standard		
Safety Fused/Fuse Problem P				Standard		
	ligh Oil Temperature Shutdown			Standard		
	Hz)/rpm Sense Loss Shutdown			Standard		
High Engine Temperature Shu	· ·			Standard		
Internal Fault/Incorrect Wiring				Standard		
Common external fault capabi				Standard		
Field upgradable firmware	,			Standard		
**Sound levels are taken from	the front of the generator. Sound levels taken from other sides of the ge	enerator may be higher	depending on installatio	on parameters. Rating (definitions - Standby: A	Applicable for support

**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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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.
- Main breakers are rated for 80% continuous load.
- 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

			nps 120/24 sition Servi		
	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		

G007039-1, G007039-3 (20 kW) Model G007043-2, G007043-3 (22 kW) G007210-1 (24 kW) No. of poles 2 200 Current rating (amps) 120/240, 1Ø Voltage rating (VAC) Utility voltage monitor (fixed)* -Pick-up 80% -Dropout 65% Return to Utility* Approx. 13 sec

GENERAC

Standard

NEMA/UL 3R

22,000

250 MCM - #6

Switch Options

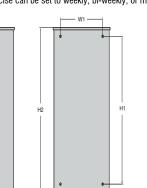
Circuit breaker protected Lug range

ETL or UL listed

Enclosure type

- DEPTH -

*Function of Evolution controller Exercise can be set to weekly, bi-weekly, or monthly



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20/22/24 kW

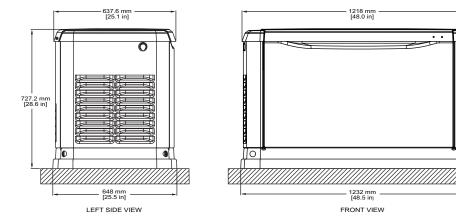
Dimensions & UPCs

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Model #	Product	Description
G007101-0	Battery Pad Warmer	Pad warmer rests under the battery. Recommended for use if temperature regularly falls below 0 $^{\circ}$ F (-18 $^{\circ}$ C). (Not necessary 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



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





26R Wet Cell Battery

STANDBY GENERATOR ACCESSORIES

Model 5819-0



DESCRIPTION

Every standby generator requires a battery to start the system. In efforts to achieve the easiest generator installation, Generac offers the recommended 26R, wet cell battery applicable for virtually all residential Generac standby generators.

*For use with all air-cooled standby product and liquid-cooled standby product 60kW and below, excluding the QT4842.





QwikPad[®] for Generators Rated for 180 mph Hurricane Winds

a lightweight, easy-to-install generator pad that meets wind loading requirements of 180 MPH and Higher? Sto

QwikPad[®] for Generators

and other Patents Pending



Rated for winds in excess of 180 MPH and exceeds **Miami-Dade hurricane** requirements.

UV-resistant, highdurability construction is lightweight for shipping and 1-man handling but once filled, more than 50 lbs heavier than competitor's concrete pads.

Contains a unique gelling agent that forms a solidus gel and provides freeze protection.

Includes corrosion-resistant stainless steel mounting hardware specific to the mounted generator model.

Water Fill Plug



QwikPad[®] for Generators Rated for 180 mph Hurricane Winds

OwikPad[®] for Generators

The Florida Building Code compliant generator support pad is lightweight when purchased, but weighs enough to meet code requirements of **180 mph** + wind loading when filled with water and secured with stainless steel mounting bolts (supplied). Each pad includes a unique gelling agent that, once water is added, forms a solidus gel.

FLORIDA BUILDING CODE NOTICE

This product meets the following building code requirements:

- 1. Mechanical Vol., Sect. 304.10 Clearances from Grade This product provides 5" of clearance above adjoining grade.
- 2. Mechanical Vol., Sect. 301.15 Wind resistance Load combinations in accordance with the Florida Building Code, Building Vol. Ch. 16 and ASCE 7 – Ch. 2.

Wind pressure calculations performed per Florida Building Code- Ch. 16 and ASCE 7 - Ch. 29. For the most up-to-date documentation, visit our website, www.gwik.com/gwikpad4gen or call 1-800-866-3550.

Florida Product Approval #FL27646

This product has been tested by a nationally recognized, independent research and development laboratory and deemed compliant with Section 4.1.4 and Section A.4.1.4.1.2 of the Annex of NFPA 37 (2018), Standard for the Installation and Use of Stationary Combustion Engines and Gas Turbines.

Qwik Pad ® for Generators P/N	Description of Generator Model to be mounted
QT8200	Universal Pad (includes hardware for Generac/Honeywell, and Kohler)
QT8210	For Briggs and Stratton® 17/20 kW Steel Enclosure Generators (hardware included)
QT8220	For Briggs and Stratton [®] 20 kW Aluminum Enclosure Generators (hardware included)
QT8230	For Generac/Honeywell® 9-24 kW Generators (hardware included)
QT8240	For Kohler [®] 14/20 kW RES/RCA Generators (hardware included)

For more details or information about the Owik**Pad**[®] for **Generators** visit www.qwik.com/qwikpad4gen/ or email info@qwik.com

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