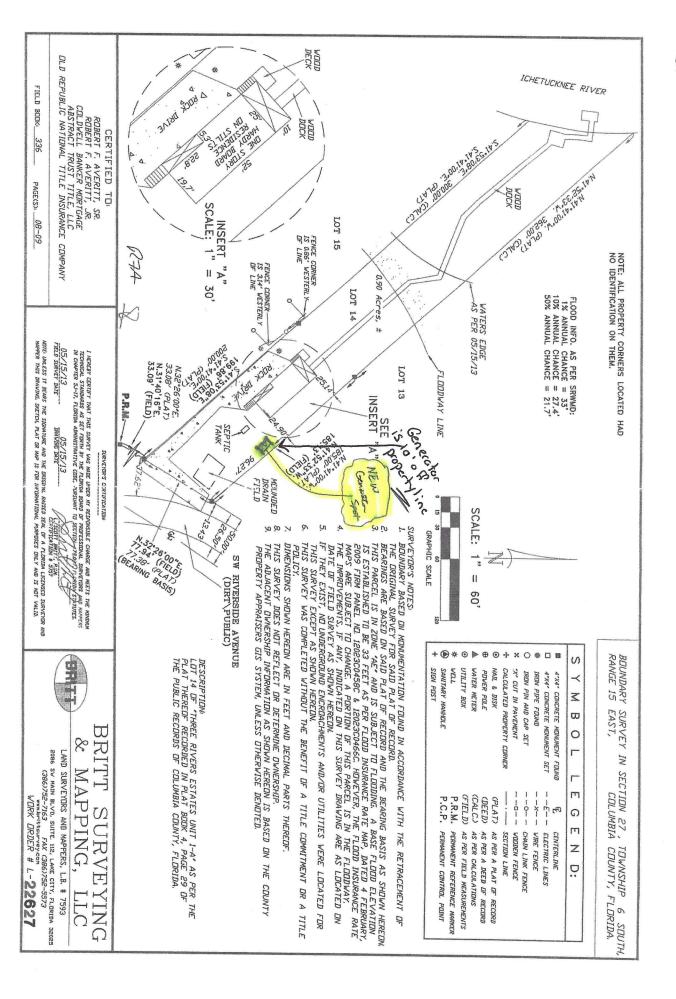


# Site Plan - 1364 Sw Riverside ave. Fort White, FL 32038





# 20/22/24 kW



- True Power™ Electrical Technology
- Two-line multilingual digital LCD Evolution™ controller (English/Spanish/French/Portuguese)
- 200 amp service rated transfer switch available
- Electronic governor

**INCLUDES:** 

- 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

# GENERAC

# **GUARDIAN® SERIES Residential Standby Generators**

**Air-Cooled Gas Engine** 

# 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, G007210-0 (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.
- 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.
- 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 anywhere 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  $\pm 1\%$ .
- 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 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.
- 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.















# **GENERAC**

# **Features and Benefits**

# Engine

Generac G-Force design

20/22/24 kW

"Spiny-lok" cast iron cylinder walls

Electronic ignition/spark advance

Full pressure lubrication system

Low oil pressure shutdown system

High temperature shutdown

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.

### Generator

Revolving field

Skewed stator

Displaced phase excitation

Automatic voltage regulation

UL 2200 listed

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.

### Transfer Switch (if applicable)

Fully automatic

■ NEMA 3R

Integrated load management technology

Remote mounting

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.

### **PWRview Transfer Switch (if applicable)**

PWRview energy monitor

Ability to view real-time energy consumption data

PWRview mobile app

Energy usage at-a-glance.

Better understand the home's energy profile.

Access daily energy intelligence and insights.

### Evolution™ Controls

AUTO/MANUAL/OFF illuminated buttons

Two-line multilingual LCD

Sealed, raised buttons

Utility voltage sensing
 Congretor 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

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.

# 3 of 6

# 20/22/24 kW

# **Features and Benefits**

**GENERAC** 

### Unit

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

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.

### **Installation System**

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

- 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.

# 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

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.

# **GENERAC**

203 (5.75)

306 (8.66)

3,600

164 (4.64)

287 (8.13)

# **Specifications**

-							
G	0	n	8	re	Ť	n	P

Model

20/22/24 kW

Rated maximum continuous power capacity (LP)	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 power capacity (NG)	20,000 Watts*	22,000 Watts*	20,000 Watts*	22,000 Watts*	24,000 Watts*
Rated voltage	18,000 Watts*	19,500 Watts*	18,000 Watts*	19,500 Watts*	21,000 Watts*
Rated maximum continuous load current – 240 volts (LP/NG)			240		=1,000 Hallo
Total Harmonic Distortion	83.3 / 75.0	91.7 / 81.3	83.3 / 75.0	91.7 / 81.3	100 / 87.5
Main line circuit breaker			Less than 5%		1007 01.0
Phase	90 amp	100 amp	90 amp	100 amp	100 amp
Number of rotor poles			1		roo ump
Rated AC frequency			2		
Power factor			60 Hz		
Battery requirement (not included)			1.0		
Unit weight (lb / kg)	12 Vo	Its, Group 26R 540 CC	A minimum or Group	35AGM 650 CCA min	imum
Dimensions (L x W x H) in / cm	448 / 203	466 / 211	436 / 198	445 / 202	455 / 206
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load**		48 x 2	5 x 29 / 121.9 x 63.5 ;	(73.7	1007 200
Sound output in dB(A) at 23 ft (7 m) with generator in Quiet-Test™ low-speed exercise mode**	67	67	67	67	67
Exercise duration	55	57	55	57	57
Engine			5 min		·
Engine type					
Number of cylinders		GENE	RAC G-Force 1000 Se	eries	
Displacement			2		
Cylinder block			999 cc		
Valve arrangement		Alum	inum w/ cast iron slee	eve	
Ignition system			Overhead valve		
Governor system		Si	olid-state w/ magneto		
Compression ratio			Electronic		
Starter			9.5:1		
Oil capacity including filter			12 VDC		
Operating rpm		A	pprox. 1.9 qt / 1.8 L		

87 (2.37) [8.99] 92 (2.53) [9.57] 86 (2.36) [8.95] 130 (3.56) [13.48] 142 (3.90) [14.77] 136 (3.74) [14.15] 92 (2.53) [9.57] 142 (3.90) [14.77] Note: Fuel pipe must be sized for full load. Required fuel pressure to generator fuel inlet at all load ranges - 3.5–7 in water column (0.87–1.74 kPa) for NG, 10–12 in water column (2.49–2.99 kPa) for LP gas. For BTU content, multiply ft<sup>3</sup>/hr x 2500 (LP) or ft<sup>3</sup>/hr x 1000 (NG). For Megajoule content, multiply m<sup>3</sup>/hr x 93.15 (LP) or m<sup>3</sup>/hr x 37.26 (NG).

204 (5.78)

301 (8.52)

228 (6.46) 327 (9.26)

Fuel consumption

ft3/hr (m3/hr) 1/2 Load

ft<sup>3</sup>/hr (gal/hr) [L/hr] 1/2 Load

Full Load

Full Load

Natural gas

Liquid propane

I wo-line plain text multilingual LCD	
Mode buttons: AUTO	Simple user interface for ease of operation.
MANUAL	Automatic start on utility failure. Weekly, Bi-weekly, or Monthly selectable exerciser.
OFF	Start with starter control, unit stays on. If utility fails, transfer to load takes place
Ready to Run/Maintenance messages	Stops unit. Power is removed. Control and charger still operate.
Engine run hours indication	Standard
Programmable start delay between 2–1500 seconds	Standard
Utility Voltage Loss/Return to Utility adjustable (brownout setting)	Standard (programmable by dealer only)
Future Set Capable Exerciser/Exercise Set Error warning	From 140-171 V / 190-216 V
Run/Alarm/Maintenance logs	Standard
Engine start sequence	50 events each
Starter lock-out	Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration).
Smart Battery Charger	Starter cannot re-engage until 5 sec after engine has stopped.
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 the	Standard

<sup>\*\*</sup>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 level; and also will decrease approximately 1% for each 10 °F (6 °C) above 60 °F (16 °C).

# 20/22/24 kW

# **Switch Options**

**GENERAC®** 

# **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.

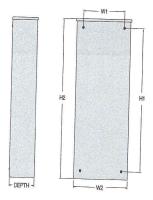
## **Dimensions**

		200 A Open Trar	mps 120/24 nsition Serv	40, 1ø ice Rated	
	Height		Width		T_
	H1	H2	W1	W2	Depth
in	26.8	30.1	10.5	13.5	6.9
cm	67.95	76.43	26.67	34.18	17.5

Vire 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	250 MCM - #6

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



# **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.

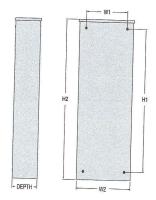
### **Dimensions**

		200 A Open Trai	mps 120/24 nsition Serv	40, 1ø ice Rated	
	He	ight	Wi	dth	
	H1	H2	W1	W2	Depth
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	C007210 0 /24 IAID	
No. of poles	G007210-0 (24 kW) 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



20/22/24 kW

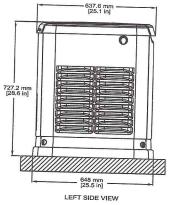


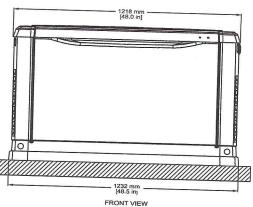
# **Available Accessories**

Model #	Product	Description
G005819-0	26R Wet Cell Battery	Every standby generator requires a battery to start the system. Generac offers the recommended 26R wet cell battery to 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 necessary for use with AGM-style batteries).
G007102-0	Oil Warmer	3
G007103-1	Breather Warmer	Oil warmer slips directly over the oil filter. Recommended for use if temperature regularly falls below 0 °F (-18 °C). 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	(Standard on 22 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	
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.
100 amp)		Smart Management Modules (SMM) are used to optimize the performance of a standby generator. It manages large electrical 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.
007170-0 - Wi-Fi/ thernet	West (Control of the Control of the	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.
007220-0 - 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.