

## GUARDIAN<sup>®</sup> SERIES Residential Standby Generators Air-Cooled Gas Engine

G007209-10, G007210-10 (Aluminum - Bisque) - 24 kW 60 Hz

Standby Power Rating

20/22/24 kW

#### 1 of 6

#### **INCLUDES:**

● True Power™ Electrical Technology

20/22/24 kW

- Two-line multilingual digital LCD Evolution<sup>™</sup> controller (English/Spanish/French/Portuguese)
- 200 amp service rated transfer switch available
- Electronic governor
- Standard Wi-Fi<sup>®</sup> 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.



G007038-1, G007039-1, G007038-3, G007039-3 (Aluminum - Bisque) - 20 kW 60 Hz G007042-10, G007042-11, G007043-10, G007043-11 (Aluminum - Bisque) - 22 kW 60 Hz

Product shown with optional fascia kit

US

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<sup>®</sup> 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.



# 20/22/24 kW

#### Engine

- ۲ Generac G-Force design
- "Spiny-lok" cast iron cylinder walls
- Electronic ignition/spark advance
- Full pressure lubrication system
- Low oil pressure shutdown system ۲
- EPA Certified for non-emergency applications
- High temperature shutdown •

#### Generator

- Revolving field
- Skewed stator ۲
- 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**

- ۲ 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
- ۲ Main line circuit breaker
- Electronic governor

#### 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.

Transfers vital electrical loads to the energized source of power.

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

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.

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

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

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. (22kW -10 models only.)

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

Rigid construction and added durability provide long engine life.

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

Prevents damage due to overheating.

Maximizes motor starting capability.

For your safety.

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

Shutdown protection prevents catastrophic engine damage due to low oil.

Allows unit to be used for demand response applications (excluding 20 kW units).

- 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.

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# **Features and Benefits**

GENERAG

# GENERAC

**Features and Benefits** 

### 20/22/24 kW

#### **Installation System**

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

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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 maintenance information

Ability to view generator battery information

- 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.
  - 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.
  - Built in battery diagnostics displaying current state of the battery.

Weather information

Provides detailed local ambient weather conditions for generator location.

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# 20/22/24 kW

# GENERAC

# **Specifications**

Model		G007038-1	G007042-10	G007038-3	G007042-11	G007209-10
		G007039-1 (20 kW)	G007043-10 (22 kW)	G007039-3 (20 kW)	G007043-11 (22 kW)	G007210-10 (24 kW)
Rated maximum continuous power	capacity (LP)	20,000 Watts*	22,000 Watts*	20,000 Watts*	22,000 Watts*	24,000 Watts
Rated maximum continuous power	capacity (NG)	18,000 Watts*	19,500 Watts*	18,000 Watts*	19,500 Watts*	21,000 Watts
Rated voltage				240		
Rated maximum continuous load c	urrent – 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%		
Aain 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 included)		12 Vo	olts, Group 26R 540 C	CA minimum or Grour	35AGM 650 CCA mir	nimum
Unit weight (lb / kg)		448 / 203	466 / 211	436 / 198	445 / 202	455 / 206
Dimensions (L x W x H) in / cm		,		25 x 29 / 121.9 x 63.5		,
, ,	n) with generator operating at normal load**	67	67	67	67	67
	n) with generator in Quiet-Test™ low-speed exercise mode**	55	57	55	57	57
Exercise duration		00	01	5 min	01	01
Engine				0 1111		
Engine type			GEN	ERAC G-Force 1000 S	Series	
Number of cylinders			GLN	2	561163	
Displacement				∠ 999 cc		
Cylinder block			A.I	minum w/ cast iron sl		
Valve arrangement			Alu	Overhead valve	eeve	
0						
gnition 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	ft <sup>3</sup> /hr (m <sup>3</sup> /hr)	204 (5.78)	228 (6.46)	164 (4.64)	202	(5.75)
	1/2 Load Full Load	301 (8.52)	327 (9.26)	287 (8.13)		(8.66)
	ft <sup>3</sup> /hr (gal/hr) [L/hr]	001 (0102)	021 (0120)	201 (0110)		(0.00)
Liquid propane		07 (0 07) [0 00]	92 (2.53) [9.57]	86 (2.36) [8.95]	92 (2.5	3) [9.57]
Liquid propane	1/2 Load	87 (2.37) [8.99]				
Liquid propane			142 (3.90) [14.77]	136 (3.74) [14.15]	142 (3.9	D) [14.77]
Note: Fuel pipe must be sized fo	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all	130 (3.56) [13.48] load ranges - 3.5–7 in	142 (3.90) [14.77] n water column (0.87-	-1.74 kPa) for NG, 10		
Note: <b>Fuel pipe must be sized f</b> gas. For BTU content, multiply ft <sup>3</sup> /I	1/2 Load Full Load	130 (3.56) [13.48] load ranges - 3.5–7 in	142 (3.90) [14.77] n water column (0.87-	-1.74 kPa) for NG, 10		
Note: <b>Fuel pipe must be sized f</b> gas. For BTU content, multiply ft <sup>3</sup> /I <b>Controls</b>	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all hr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu	130 (3.56) [13.48] load ranges - 3.5–7 in	142 (3.90) [14.77] n water column (0.87- P) or m³/hr x 37.26 (N	-1.74 kPa) for NG, 10- IG).	–12 in water column (	
Note: <b>Fuel pipe must be sized f</b> gas. For BTU content, multiply ft <sup>3</sup> /I <b>Controls</b> Two-line plain text multilingual LC	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all hr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu	130 (3.56) [13.48] load ranges - 3.5–7 ir ltiply m³/hr x 93.15 (L	142 (3.90) [14.77] n water column (0.87- P) or m³/hr x 37.26 (N Simple us	-1.74 kPa) for NG, 10- IG). er interface for ease o	–12 in water column ( f operation.	2.49–2.99 kPa) f
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Note: <b>Fuel pipe must be sized f</b> gas. For BTU content, multiply ft <sup>3</sup> /I <b>Controls</b> Two-line plain text multilingual LC Mode buttons: AUTO	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all hr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m <sup>3</sup> /hr x 37.26 (N Simple us ic start on utility failure rith starter control, unil	-1.74 kPa) for NG, 10- IG). er interface for ease o e. Weekly, Bi-weekly,	-12 in water column ( f operation. or Monthly selectable s, transfer to load take:	2.49–2.99 kPa) f
Note: <b>Fuel pipe must be sized f</b> gas. For BTU content, multiply ft <sup>3</sup> /I <b>Controls</b> Two-line plain text multilingual LC Mode buttons: AUTO MANUAL OFF	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all fr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m <sup>3</sup> /hr x 37.26 (N Simple us ic start on utility failure rith starter control, unil	-1.74 kPa) for NG, 10 IG). er interface for ease o e. Weekly, Bi-weekly, stays on. If utility fail	-12 in water column ( f operation. or Monthly selectable s, transfer to load take:	2.49–2.99 kPa) f
Note: <b>Fuel pipe must be sized f</b> gas. For BTU content, multiply ft <sup>3</sup> /I <b>Controls</b> Two-line plain text multilingual LC Mode buttons: AUTO MANUAL OFF Ready to Run/Maintenance messag	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all fr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m <sup>3</sup> /hr x 37.26 (N Simple us ic start on utility failure rith starter control, unil	-1.74 kPa) for NG, 10- IG). er interface for ease o e. Weekly, Bi-weekly, t stays on. If utility fail removed. Control and	-12 in water column ( f operation. or Monthly selectable s, transfer to load take:	2.49–2.99 kPa) f
Note: <b>Fuel pipe must be sized f</b> gas. For BTU content, multiply ft <sup>3</sup> /I <b>Controls</b> Two-line plain text multilingual LC Mode buttons: AUTO MANUAL	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all fr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu D	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m <sup>3</sup> /hr x 37.26 (N Simple us ic start on utility failure rith starter control, unil Stops unit. Power is	-1.74 kPa) for NG, 10 IG). er interface for ease o e. Weekly, Bi-weekly, t stays on. If utility fail removed. Control and Standard	-12 in water column ( f operation. or Monthly selectable s, transfer to load take charger still operate.	2.49–2.99 kPa) f
Note: <b>Fuel pipe must be sized f</b> r gas. For BTU content, multiply ft <sup>3</sup> /I <b>Controls</b> Two-line plain text multilingual LC Mode buttons: AUTO MANUAL OFF Ready to Run/Maintenance messag Engine run hours indication Programmable start delay between	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all hr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu D ges 2–1500 seconds	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m³/hr x 37.26 (N Simple us ic start on utility failure rith starter control, unit Stops unit. Power is Standard	-1.74 kPa) for NG, 10 IG). er interface for ease o e. Weekly, Bi-weekly, a stays on. If utility fail removed. Control and Standard Standard (programmable by de	-12 in water column ( f operation. or Monthly selectable s, transfer to load take: charger still operate.	2.49–2.99 kPa) f
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Note: Fuel pipe must be sized fr gas. For BTU content, multiply ft <sup>3</sup> /I Controls Two-line plain text multilingual LC Mode buttons: AUTO MANUAL OFF Ready to Run/Maintenance messag Engine run hours indication Programmable start delay between Utility Voltage Loss/Return to Utilit Future Set Capable Exerciser/Exerc	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all hr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu D ges 2–1500 seconds y adjustable (brownout setting)	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m³/hr x 37.26 (N Simple us ic start on utility failure rith starter control, unit Stops unit. Power is Standard	-1.74 kPa) for NG, 10 IG). er interface for ease o 2. Weekly, Bi-weekly, 1. stays on. If utility fail removed. Control and Standard Standard (programmable by de m 140-171 V / 190-2 Standard	-12 in water column ( f operation. or Monthly selectable s, transfer to load take: charger still operate.	2.49–2.99 kPa) f
Note: Fuel pipe must be sized fr gas. For BTU content, multiply ft <sup>3</sup> /1 <b>Controls</b> Two-line plain text multilingual LC Mode buttons: AUTO MANUAL OFF Ready to Run/Maintenance messag Engine run hours indication Programmable start delay between Utility Voltage Loss/Return to Utilit Future Set Capable Exerciser/Exerc Run/Alarm/Maintenance logs	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all hr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu D ges 2–1500 seconds y adjustable (brownout setting)	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m³/hr x 37.26 (N Simple us ic start on utility failure rith starter control, unit Stops unit. Power is Standard Fro	-1.74 kPa) for NG, 10 IG). er interface for ease o 2. Weekly, Bi-weekly, 1. stays on. If utility fail removed. Control and Standard Standard (programmable by de m 140-171 V / 190-2 Standard 50 events each	-12 in water column ( f operation. or Monthly selectable s, transfer to load take charger still operate. ealer only) 16 V	2.49–2.99 kPa) f
Note: Fuel pipe must be sized fr gas. For BTU content, multiply ft <sup>3</sup> /1 <b>Controls</b> Two-line plain text multilingual LC Mode buttons: AUTO MANUAL OFF Ready to Run/Maintenance messag Engine run hours indication Programmable start delay between Utility Voltage Loss/Return to Utilit Future Set Capable Exerciser/Exerc Run/Alarm/Maintenance logs Engine start sequence	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all hr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu D ges 2–1500 seconds y adjustable (brownout setting)	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m³/hr x 37.26 (N Simple us ic start on utility failure ith starter control, unit Stops unit. Power is Standard Fro Cyclic cranking: 16	-1.74 kPa) for NG, 10 IG). er interface for ease o e. Weekly, Bi-weekly, i stays on. If utility fail removed. Control and Standard (programmable by de m 140-171 V / 190-2 Standard 50 events each sec on, 7 rest (90 sec	-12 in water column ( f operation. or Monthly selectable s, transfer to load take charger still operate. ealer only) 16 V	2.49–2.99 kPa) f
Note: Fuel pipe must be sized fr gas. For BTU content, multiply ft <sup>3</sup> /I Controls Two-line plain text multilingual LC Mode buttons: AUTO MANUAL OFF Ready to Run/Maintenance messag Engine run hours indication Programmable start delay between Utility Voltage Loss/Return to Utilit Future Set Capable Exerciser/Exerce Run/Alarm/Maintenance logs Engine start sequence Starter lock-out	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all hr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu D ges 2–1500 seconds y adjustable (brownout setting)	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m³/hr x 37.26 (N Simple us ic start on utility failure ith starter control, unit Stops unit. Power is Standard Fro Cyclic cranking: 16	-1.74 kPa) for NG, 10 IG). er interface for ease o e. Weekly, Bi-weekly, i stays on. If utility fail removed. Control and Standard (programmable by de m 140-171 V / 190-2 Standard 50 events each sec on, 7 rest (90 sec igage until 5 sec after	-12 in water column ( f operation. or Monthly selectable s, transfer to load take charger still operate. ealer only) 16 V	2.49–2.99 kPa) f
Note: Fuel pipe must be sized fr gas. For BTU content, multiply ft <sup>3</sup> /I Controls Two-line plain text multilingual LC Mode buttons: AUTO MANUAL OFF Ready to Run/Maintenance messag Engine run hours indication Programmable start delay between Utility Voltage Loss/Return to Utilit Future Set Capable Exerciser/Exerc Run/Alarm/Maintenance logs Engine start sequence Starter lock-out Smart Battery Charger	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all hr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu D ges 2–1500 seconds y adjustable (brownout setting)	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m³/hr x 37.26 (N Simple us ic start on utility failure ith starter control, unit Stops unit. Power is Standard Fro Cyclic cranking: 16	<ul> <li>1.74 kPa) for NG, 10- IG).</li> <li>er interface for ease o e. Weekly, Bi-weekly, t stays on. If utility fail removed. Control and Standard</li> <li>Standard</li> <li>(programmable by de m 140-171 V / 190-2 Standard</li> <li>50 events each</li> <li>sec on, 7 rest (90 sec ingage until 5 sec after Standard</li> </ul>	-12 in water column ( f operation. or Monthly selectable s, transfer to load take charger still operate. ealer only) 16 V	2.49–2.99 kPa) f
Note: Fuel pipe must be sized fr gas. For BTU content, multiply ft <sup>3</sup> /I Controls Two-line plain text multilingual LC Mode buttons: AUTO MANUAL OFF Ready to Run/Maintenance messag Engine run hours indication Programmable start delay between Utility Voltage Loss/Return to Utilit Future Set Capable Exerciser/Exerc Run/Alarm/Maintenance logs Engine start sequence Starter lock-out Smart Battery Charger Charger Fault/Missing AC warning	1/2 Load Full Load or full load. Required fuel pressure to generator fuel inlet at all hr x 2500 (LP) or ft <sup>3</sup> /hr x 1000 (NG). For Megajoule content, mu D ges 2–1500 seconds y adjustable (brownout setting) ise Set Error warning	130 (3.56) [13.48] load ranges - 3.5–7 in ltiply m³/hr x 93.15 (L Automati	142 (3.90) [14.77] n water column (0.87- P) or m³/hr x 37.26 (N Simple us ic start on utility failure ith starter control, unit Stops unit. Power is Standard Fro Cyclic cranking: 16	<ul> <li>1.74 kPa) for NG, 10- IG).</li> <li>er interface for ease o e. Weekly, Bi-weekly, t stays on. If utility fail removed. Control and Standard</li> <li>Standard</li> <li>(programmable by de m 140-171 V / 190-2 Standard</li> <li>50 events each sec on, 7 rest (90 sec ingage until 5 sec after Standard Standard</li> </ul>	-12 in water column ( f operation. or Monthly selectable s, transfer to load take charger still operate. ealer only) 16 V	2.49–2.99 kPa) f
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he duration of the utility power outage with correct maintenance performed. No overload capability is available for this rating.

Rating definitions - Optional Standby: Applicable for supplying backup power for the duration of the utility power outage with correct maintenance performed. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046, UL2200, 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) above 60 °F (16 °C). \*\*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.

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### 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.
- 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

	200 Amps 120/240, 1ø Open Transition Service Rated				
	Height Width				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		

#### G007039-1, G007039-3 (20 kW) Model G007043-10, G007043-11 (22 kW) G007210-10 (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 ETL or UL listed Standard Enclosure type NEMA/UL 3R Circuit breaker protected 22,000

GENERAC

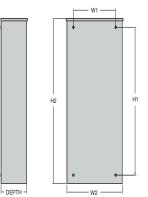
250 MCM - #6

**Switch Options** 

Lug range

\*Function of Evolution controller





# GENERAC

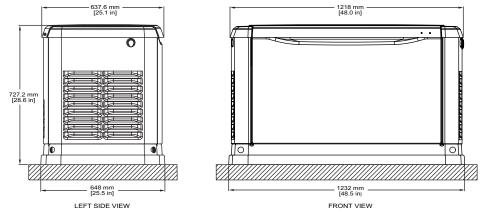
# 20/22/24 kW

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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	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).
G007009-0	LTE LP Tank Fuel Level Monitor	The LTE 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 <sup>®</sup> 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.
G007303-0 (20 kW)	High Altitude Kit	A high altitude kit may be required when operating over 2,000 ft (610 m) above sea level per U.S. EPA regulations. Operating the engine with the incorrect engine configuration at a given altitude may increase emissions and decrease fuel efficiency and performance.

### **Dimensions & UPCs**

Model	UPC
G007038	696471074185
G007039	696471074192
G007042	696471074208
G007043	696471074215
G007209	696471071511
G007210	696471084801



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



Panel A back-up Generator Load	QTY	Rating	Fa	actor	Load (VA)
General Lighting (net Sqf@3va)		4676	3	100%	14028
Small Appliance 2 kitchen 1 laundry 1500va each		4	1500	100%	6000
		1	4800	100%	4800
		2	1200	100%	2400
MircoWave		2	996	100%	1992
Disposal		2	900	100%	1800
Refrigerator		2	588	100%	1176
Dishwasher		2	1200	100%	2400
Freezer		1	888	100%	888
Electric Range		0	8016	100%	0
Wall Mounted Oven		1	4500	100%	4500
Counter Mounted Cook top				100%	0
Water Heater		0	4500	100%	0
Clothes Dryer		0	4800	100%	0
Garage Door opener		1	588	100%	588
				100%	0
	Hedick			100%	0
	125 SW Hermitage Glen			100%	0
Total General Load	High Springs, FL 32643				40572
		•			
AC			0	100%	0
forced Air Heat		0		100%	0
Heat Pump		0	7500	100%	0
Supplemental heat		0	5000	100%	0
electrice space heat				100%	0
less than 4 sperately controlled systems		2	7500	65%	9750
more than 4 seperately controlled systems				40%	0
Electric system with continous heat				100%	0
					9750
Calculations					
1st 10 KW of General loads		1	10000	100%	10000
Remaining General Loads		1	30572	40%	12228.8
Largest Heating Or Cooling Load		1	9750	40%	3900
		-	5750	+070	16128.8
Amps					67.20333333
					07.203333333