

16/22 kW



RESPONSE® SERIES Energy Alliance Automatic Standby Generators

Standby Power Rating

G007141-0, G007141-1 (Aluminum - Bisque) - 16 kW 60 Hz G007142-0, G007142-1 (Aluminum - Bisque) - 22 kW 60 Hz

INCLUDES:

- True Power[™] Electrical Technology
- Two-line multilingual digital LCD Evolution™ controller (English/Spanish/French/Portuguese)
- 200 Amp service rated smart switch
- Electronic governor
- Standard Wi-Fi[™] connectivity on -1 models
- 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





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.
- O TEST CRITERIA:
 - ✓ PROTOTYPE TESTED
 - SYSTEM TORSIONAL TESTED
- ✓ NEMA MG1-22 EVALUATION✓ MOTOR STARTING ABILITY
- MOBILE LINK® CONNECTIVITY: FREE with select Response Series Home standby generators, Mobile Link Wi-Fi allows users to monitor the status of the generator 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.

- EPA CERTIFIED FOR NON-EMERGENCY APPLICATIONS: Generac's Response Series generators are the first air-cooled generators to be EPA certified for nonemergency applications. This allows energy alliance partners to capitalize on the benefits a Generac Response series home standby generator can offer.
- 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 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 MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±1%.













Features and Benefits

Engine

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Generac G-Force design
 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.

"Spiny-lok" cast iron cylinder walls
 Rigid construction and added durability provide long engine life.

Electronic ignition/spark advance
 These features combine to assure smooth, quick starting every time.

Full pressure lubrication system
 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.

Low oil pressure shutdown system
 Shutdown protection prevents catastrophic engine damage due to low oil.

High temperature shutdown
 Prevents damage due to overheating.

Generator

Skewed stator

■ EPA Certified for Non-Emergency Applications Allows the unit to be used for demand response applications.

Revolving field
 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.

UL 2200 listed For your safety.

Transfer Switch (if applicable)

Displaced phase excitation

Automatic voltage regulation

Fully automatic
 Transfers vital electrical loads to the energized source of power.

NEMA 3R
 Can be installed inside or outside for maximum flexibility.

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

Evolution™ Controls

• AUTO/MANUAL/OFF illuminated buttons Selects the operating mode and provides easy, at-a-glance status indication in any condition.

Two-line multilingual LCD
 Provides homeowners easily visible logs of history, maintenance, and events up to 50 occurrences.

Sealed, raised buttons
 Smooth, weather-resistant user interface for programming and operations.

Utility voltage sensing
 Constantly monitors utility voltage, setpoints 65% dropout, 80% pick-up, of standard voltage.

Generator voltage sensing
 Constantly monitors generator voltage to verify the cleanest power delivered to the home.

Utility interrupt delay
 Prevents nuisance start-ups of the engine, adjustable 2–1500 seconds from the factory default setting of 5

seconds by a qualified dealer.

Engine warm-up
 Verifies engine is ready to assume the load, setpoint approximately 5 seconds.

▶ Engine cool-down Allows engine to cool prior to shutdown, setpoint approximately 1 minute.

Programmable exercise Operates engine to prevent oil seal drying and damage between power outages by running the generator for

 $5\ minutes\ every\ other\ week.\ Also\ offers\ a\ selectable\ setting\ for\ weekly\ or\ monthly\ operation\ providing\ flex-$

ibility and potentially lower fuel costs to the owner.

Smart battery charger
 Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature.

Compatible with lead acid and AGM-style batteries.

Main line circuit breaker Protects generator from overload.

Electronic governor Maintains constant 60 Hz frequency.

Unit

SAE weather protective enclosure
 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.

Enclosed critical grade muffler
 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.

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Features and Benefits

GENERAC

Installation System

Listed ANSI Z21.75/CSA 6.27 outdoor appliance connector for the required connection to the gas supply 14 in (35.6 cm) flexible fuel line connector piping.

Integral sediment trap Meets IFGC and NFPA 54 installation requirements.

Connectivity (Wi-Fi equipped models only)

 Ability to view generator status Monitor the 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.

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.

Ability to view generator maintenance information

Monthly report with previous month's activity

Ability to view generator battery information

Weather information

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Specifications

Generator

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Model	G007141-0, G007141-1 (16 kW)	G007142-0, G007142-1 (22 kW)	
Rated maximum continuous power capacity (LP)	16,000 Watts*	22,000 Watts*	
Rated maximum continuous power capacity (NG)	16,000 Watts*	19,500 Watts*	
Rated voltage	24	10	
Rated maximum continuous load current – 240 volts (LP/NG)	66.7 / 66.7	91.7 / 81.3	
Total Harmonic Distortion	Less th	an 5%	
Main line circuit breaker	70 amp	100 amp	
Phase	1		
Number of rotor poles	2	2	
Rated AC frequency	60	60 Hz	
Power factor	1.	0	
Battery requirement (not included)	12 volts, Group 26R 540 CCA minimum	n or Group 35AGM 650 CCA minimum	
Jnit weight (lb/kg)	409 / 186	466/211	
Dimensions (L x W x H) in / cm	48 x 25 x 29 / 12	1.9 x 63.5 x 73.7	
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load**	67	67	
Sound output in dB(A) at 23 ft (7 m) with generator in Quiet-Test™ low-speed exercise mode**	55	57	
Exercise duration	5 n	nin	
Engine			
ingine type	GENERAC G-Foi	GENERAC G-Force 1000 Series	
lumber of cylinders	2		
Displacement	999	999 cc	
Sylinder block	Aluminum w/ c	Aluminum w/ cast iron sleeve	
'alve arrangement	Overhea	Overhead valve	
gnition system	Solid-state	Solid-state w/ magneto	
Sovernor system	Electi	Electronic	
Compression ratio	9.5	9.5:1	
Starter	12 VDC		
Oil capacity including filter	Approx. 1.9 qt / 1.8 L		
Operating rpm	3,600		
uel consumption			
latural gas ft³/hr (m³/hr)			
1/2 Load	218 (6.17)	228 (6.46)	
Full Load iquid propane ft ³ /hr (qal/hr) [L/hr]	309 (8.75)	327 (9.26)	
	74 (2.03) [7.70]	92 (2.53) [9.57]	
1/2 Load		02 (2.00) [0.01]	

Controls

Simple user interface for ease of operation.
Automatic start on utility failure. 7 day exerciser.
Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Stops unit. Power is removed. Control and charger still operate.
Standard
Standard
Standard (programmable by dealer only)
From 140-171 V/190-216 V
Standard
50 events each
Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration).
Starter cannot re-engage until 5 sec after engine has stopped.
Standard

^{*}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) above 60 °F (16 °C).



Transfer Switch

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Service Rated Smart Switch Features

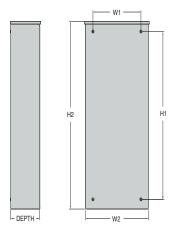
- Includes Digital Power Management Technology (DPM) standard.
- Intelligently manages up to four air conditioner loads with no additional hardware
- Up to four more large (240 VAC) loads can be managed when used in conjunction with Smart Management Modules (SMMs).
- Electrically operated, mechanically-held 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				
	Height		Width		Donth
	H1	H2	W1	W2	Depth
in	26.75	30.1	10.5	13.5	6.91
cm	67.95	76.45	26.67	34.29	17.55

Model	G007141-0/-1 (16 kW) G007142-0/-1 (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 after utility failure*	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 or monthly



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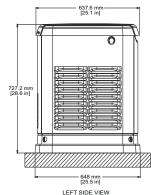


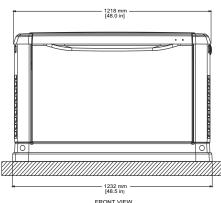
Available Accessories

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 for use with all air-cooled standby product (excluding PowerPact $^{\textcircled{\$}}$).
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 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. They manage large electrical loads upon startup, and shed 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	Mobile Link [®] 4G LTE Cellular Accessory	The Mobile Link 4G LTE Cellular Accessory allows users to monitor the status of the generator 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.

Dimensions & UPCs

Model	UPC
G007141-0	696471072006
G007141-1	696471074376
G007142-0	696471072013
G007142-1	696471074383





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

