

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

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Standby Power Rating

G007171-0, G007172-0 (Aluminum - Bisque) – 10 kW 60 Hz G007223-10, G007224-10, G007225-10 (Aluminum - Bisque) – 14 kW 60 Hz G007226-10, G007228-10 (Aluminum - Bisque) – 18 kW 60 Hz



Product shown with optional fascia kit



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.

INCLUDES:

True Power™ Electrical Technology

10/14/18 kW

- Two-line multilingual digital LCD Evolution [™] controller (English/Spanish/French/Portuguese)
- Two transfer switch options available: 100 amp 16 circuit switch or 200 amp service rated smart switch
- 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

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 you need it 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.
- TEST CRITERIA:
 - PROTOTYPE TESTED
 - SYSTEM TORSIONAL TESTED
- NEMA MG1-22 EVALUATION Motor Starting Ability
- MOBILE LINK[®] WI-FI CONNECTIVITY: FREE with select Guardian 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.

- 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%.
- 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 the GENERAC product line is offered with its own transfer systems and controls for total system compatibility.



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10/14/18 kW

Engine

- Generac G-Force design ۲

Gei

Tra

- 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
- Electronic governor

Unit

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

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.

Sound attenuated enclosures ensure quiet operation and protection against mother nature, withstanding

Makes for an easy, eye appealing installation, as close as 18 in (457 mm) away from a structure.

Features and Benefits

| , | "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. |
| e | nerator | |
| | Revolving field | Allows for a smaller, light weight unit that operates 25% more efficiently than a revolving armature generator. |
| | Skewed stator | Produces a smooth output waveform for compatibility with electronic equipment. |
| | Displaced phase excitation | Maximizes motor starting capability. |
| | Automatic voltage regulation | Regulating output voltage to $\pm 1\%$ prevents damaging voltage spikes. |
| | EPA Certified for non-emergency applications | Allows unit to be used for demand response applications (excluding 10 kW units). |
| | UL 2200 listed | For your safety. |
| a | nsfer Switch (if applicable) | |
| , | Fully automatic | Transfers vital electrical loads to the energized source of power. |
| • | NEMA 3R | Can be installed inside or outside for maximum flexibility. |
| | | |

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

Select the operating mode and provide easy, at-a-glance status indication in any condition.

Provides homeowners easily visible logs of history, maintenance, and events up to 50 occurrences.

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.

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 is delivered to the home.

Prevents nuisance startups 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. 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.

GENERAG

GENERAC

Features and Benefits

10/14/18 kW

Installation System

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

Connectivity

- 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 your 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 your 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.

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10/14/18 kW

GENERAC

Specifications

| Generator | | | |
|--|---|---------------------------------------|----------------------------|
| Generator Model | 10 kW | 14 kW | 18 kW |
| Rated maximum continuous power capacity (LP) | 10.000 Watts* | 14,000 Watts* | 18.000 Watts* |
| Rated maximum continuous power capacity (LF) | 9,000 Watts* | 14,000 Watts* | 17,000 Watts* |
| Rated voltage | 3,000 Mails | 240 | 11,000 Watto |
| Rated maximum continuous load current – 240 volts (LP/NG) | 41.7 / 37.5 | 58.3 / 58.3 | 75.0 / 70.8 |
| Total Harmonic Distortion | , | Less than 5% | 1010 / 1010 |
| Main line circuit breaker | 45 Amp | 60 Amp | 80 Amp |
| Phase | | 1 | · · |
| Number of rotor poles | | 2 | |
| Rated AC frequency | | 60 Hz | |
| Power factor | | 1.0 | |
| Battery requirement (not included) | 12 Volts, Group 26R 54 | CCA Minimum or Group 35AG | M 650 CCA Minimum |
| Unit weight (Ib/kg) | 338/153 | 385/175 | 420/191 |
| Dimensions (L x W x H) in / cm | 48 | x 25 x 29 / 121.9 x 63.5 x 73.7 | 7 |
| Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load** | 61 | 65 | 65 |
| Sound output in dB(A) at 23 ft (7 m) with generator in Quiet-Test™ low-speed exercise mode** | 57 | 55 | 55 |
| Exercise duration | | 5 min | |
| Engine | | | |
| Engine type | GENERAC G-Force 400 Series | GENERAC G-F | orce 800 Series |
| Number of cylinders | 1 | | 2 |
| Displacement | 460 cc | | 6 cc |
| Cylinder block | | Aluminum w/ cast iron sleeve | |
| /alve arrangement | | Overhead valve | |
| _ifter type | Solid | Hyd | raulic |
| gnition system | | Solid-state w/ magneto | |
| Governor system | | Electronic | |
| Compression ratio | | 9.5:1 | |
| Starter | | 12 VDC | |
| Dil capacity including filter | Approx. 1.1 qt / 1.0 L | | .2 qt / 2.1 L |
| Operating rpm | | 3,600 | |
| Fuel consumption | | | |
| Natural Gas ft ³ /hr (m ³ /hr) 1/2 Load | 101 (2.86) | 195 (5.52) | 169 (4.79) |
| Full Load | 127 (3.60) | 256 (7.25) | 247 (6.99) |
| Liquid Propane ft ³ /hr (gal/hr) [L/hr] | | . , | · · · |
| 1/2 Load | 36 (0.97) [3.66] | 65 (1.81) [6.87] | 62 (1.70) [6.45] |
| Full Load | 54 (1.48) [5.62] | 112 (3.07) [11.61] | 110 (3.02) [11.44] |
| Note: Fuel pipe must be sized for full load. Required fuel pressure to generator fuel inlet at all load i gas. For BTU content, multiply ft ³ /hr x 2,500 (LP) or ft ³ /hr x 1,000 (NG). For Megajoule content, multip | ranges - $3.5-7.0$ in water column (0.87- ly m ³ /br x 93 15 (LP) or m ³ /br x 37 26 (| -1.74 kPa) for NG, 10–12 in wa | iter column (2.49–2.99 kPa |
| as. For bro content, manuply it /iii x 2,000 (ci) of it /iii x 1,000 (ivd). For integajoure content, manup Controls | IY III 7 III X 93.13 (EF) 01 III 7 III X 37.20 (| vu). | |
| | Simple | upper interface for appendix of apper | tion |
| Fwo-line plain text multilingual LCD Viode buttons: AUTO | Simple user interface for ease of operation. Automatic start on utility failure. Weekly, Bi-Weekly, or Monthly selectable exerciser. | | |
| MANUAL | Start with starter control, unit stays on. If utility fails, transfer to load takes place. | | |
| OFF | | r is removed. Control and charg | |
| Ready to Run/Maintenance messages | Stops unit. I owe | Standard | ei siii opeiale. |
| Engine run hours indication | | Standard | |
| Programmable start delay between 2–1500 seconds | Standard (programmable by dealer only) | | |
| Utility voltage loss/Return to utility adjustable (brownout setting) | From 140-171 V / 190-216 V | | |
| Future set capable exerciser/Exercise set error warning | Standard | | |
| Run/Alarm/Maintenance logs | 50 events each | | |
| Engine start sequence | Cyclic cranking: 16 sec on, 7 sec rest (90 sec maximum duration). | | |
| Starter lock-out | Starter cannot re-engage until 5 sec after engine has stopped. | | |
| Smart Battery Charger | | Standard | |
| Charger Fault/Missing AC Warning | Standard | | |
| ow Battery/Battery Problem Protection and Battery Condition Indication | Standard | | |
| Automatic Voltage Regulation with Over and Under Voltage Protection | Standard | | |
| Jnder-Frequency/Overload/Stepper Overcurrent Protection | Standard Standard Standard Standard Standard | | |
| Safety Fused/Fuse Problem Protection | | | |
| Automatic Low Oil Pressure/High Oil Temperature Shutdown | | | |
| Dvercrank/Overspeed (@ 72 Hz)/rpm Sense Loss Shutdown | | | |
| High Engine Temperature Shutdown | Standard | | |
| Internal Fault/Incorrect Wiring Protection | Standard | | |
| Common External Fault Capability | | Standard | |
| Field Upgradable Firmware | | Standard | |
| | | | |

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, IS03046, 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 tt (304.8 m) above sea level and 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 the front of the generator. Sound levels taken from the front of the generator. other sides of the generator may be higher depending on installation parameters.

10/14/18 kW

Limited Circuits Switch Features

- 16 space, 24 circuit. Breakers not included.
- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2-pole, 250 VAC contactors.
- 30 millisecond transfer time.
- Dual coil design.
- Rated for both copper and aluminum 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.
- Multi listed for use with 1 in standard, tandem, GFCI, and AFCI breakers from Siemens, Murray, Eaton, and Square D for the most flexible and cost effective install.

Dimensions

| | Height | | Width | | Depth |
|----|--------|-------|-------|-------|-------|
| | H1 | H2 | W1 | W2 | Depui |
| in | 26.75 | 30.1 | 10.5 | 13.5 | 6.91 |
| cm | 67.94 | 76.43 | 26.67 | 34.18 | 17.54 |

| Wire Ranges | | | |
|---------------|-------------|------------|--|
| Conductor Lug | Neutral Lug | Ground Lug | |
| 2/0 - #14 | 2/0 - #14 | 2/0 - #14 | |

Service Rated Smart Switch Features

- Includes Smart A/C Management (SACM) module standard.
- Intelligently manages up to four air conditioner loads with no additional hardware.
- Up to eight large (240 VAC) loads can be managed 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

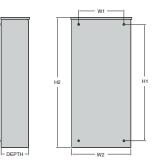
| | 200 Amps 120/240, 1ø Open Transition Service Rated | | | | | | |
|----|---|-------|-------|------|-------|--|--|
| | Height | | Width | | Depth | | |
| | H1 | H2 | W1 | W2 | Depui | | |
| in | 26.75 | 30.1 | 10.5 | 13.5 | 6.3 | | |
| cm | 67.94 | 76.45 | 26.67 | 34.3 | 16.01 | | |

| Nire Ranges | | | |
|---------------|--------------|------------|--|
| Conductor Lug | Neutral Lug | Ground Lug | |
| 400 MCM - #4 | 350 MCM - #6 | 2/0 - #14 | |

| Model | G007172-0 (10 kW) | G007224-10 (14 kW) |
|---|----------------------|-----------------------|
| No. of poles | | 2 |
| Current rating (amps) | 1 | 00 |
| Voltage rating (VAC) | 120/2 | 240, 1Ø |
| Utility voltage monitor (fixed)* <i>-Pick-up</i> -Dropout | | 0% 5% |
| Return to utility* | Approx | . 15 sec |
| Exercises bi-weekly for 5 minutes* | Star | ndard |
| ETL or UL Listed | Star | ndard |
| Total circuits available | 2 | 24 |
| Tandem breaker capabilities | 8 tan | idems |
| Circuit breaker protected Available RMS Symmetrical Fault Current @ 250 Volts | 10, | 000 |

*Function of Evolution controller

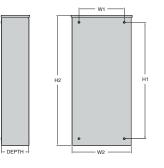
Exercise can be set to weekly or monthly



| Model | G007225-10 (14 kW) | G007228-10 (18 kW) |
|---|-----------------------|-----------------------|
| No. of poles | 2 | |
| Current rating (amps) | 20 | 0 |
| Voltage rating (VAC) | 120/24 | IO, 1Ø |
| Utility voltage monitor (fixed)* <i>-Pick-up</i> -Dropout | 80 65 | - |
| Return to utility* | 15 : | sec |
| Exercises bi-weekly for 5 minutes* | Stan | dard |
| ETL or UL Listed | Stan | dard |
| Enclosure type | NEMA/ | UL 3R |
| Circuit breaker protected | 22,0 | 000 |
| Lug range | 250 MC | M - #6 |

*Function of Evolution Controller

Exercise can be set to weekly or monthly



GENERAC

Switch Options

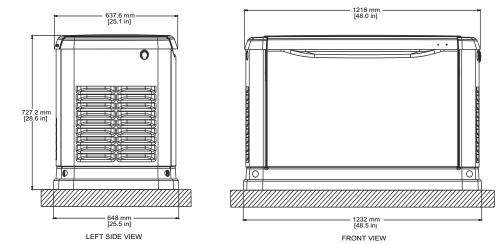
GENERAC

10/14/18 kW

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| 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 $PowerPact^{(R)}$). |
| , | | The pad warmer rests under the battery. Recommended for use if the temperature regularly falls below 0 °F (-18 °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 the temperature regularly falls below 0 °F (-18 °C). |
| G007103-1 | Breather Warmer | The 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 you may not need. 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, con- toured 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. |
| G006482-0 – 10 kW G007216-0 – 14 / 18 kW | Scheduled Maintenance Kit | Generac's scheduled maintenance kits provide all the items necessary to perform complete routine maintenance on a Generac automatic standby generator (oil not included). |
| G007005-0 | Wi-Fi LP Fuel Level Monitor | The Wi-Fi enabled LP 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 amps) G007006-0 (100 amps) | Smart Management Module | 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. |
| G007169-0 (4G LTE) G007170-0 (Wi-Fi/Ether- net) | Mobile Link [®] Cellular Accessories | The Mobile Link family of Cellular Accessories allow 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 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, con- toured 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



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



UPC

696471074680

696471074673

696471082548

696471082555

696471082562

696471082579

696471082586

Model

G007171

G007172

G007223

G007224

G007225

G007226

G007228