

20 kW

GUARDIAN[®] SERIES

Residential & Commercial Standby Generators Air-Cooled Gas Engine

1 of 5

INCLUDES:

- True Power[™] Electrical Technology
- Two-Line LCD Multilingual Digital Evolution[™] Controller (English/Spanish/ French /Portuguese)
- Electronic Governor
- System Status & Maintenance Interval LED Indicators
- Standard Wi-Fi[™] Remote Monitoring
- Sound Attenuated Enclosure
- Flexible Fuel Line Connector
- Direct-To-Dirt Composite Mounting Pad
- Natural Gas or LP Gas Operation
- 5 Year Limited Warranty
- Listed and Labeled by the Southwest Research Institute allowing installation as close as 18" (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_Rev8.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.

NEMA MG1-22 EVALUATION

MOTOR STARTING ABILITY

- O TEST CRITERIA:
 - ✓ PROTOTYPE TESTED
 - SYSTEM TORSIONAL TESTED
- O MOBILE LINK™ REMOTE MONITORING: FREE with every Guardian Series Home standby generator. Allows you to monitor the status of your generator from anywhere in the world using a smartphone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Connect your account to your authorized service dealer for fast, friendly and proactive service. With Mobile Link, you are taken care of before the next power outage.

Standby Power Rating

Model G007077-1 (Aluminum - Bisque) - 20 kW 60 Hz



QUIET TEST

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 $\pm 1\%$.
- 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 includes its own transfer systems and controls for total system compatibility.



features and benefits

Engine

20 kW

igine	
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 resulting in longer engine life.
Quiet-Test™	Greatly reduces sound output and fuel consumption during bi-weekly exercise.
• "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. No 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.
enerator	
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	Regulates the output voltage to $\pm 1\%$ prevents damaging voltage spikes.
UL 2200 listed	For your safety.
olution™ Controls	
Two-line LCD multilingual display	Provides homeowners easily visible logs of history, maintenance and events up to 50 occurrences.
Auto/Manual/Off illuminated buttons	Selects the operating mode and provides easy, at-a-glance status indication in any condition.
Sealed, raised buttons	Smooth, weather-resistant user interface for programming and operations.
 Utility voltage sensing 	Constantly monitors utility voltage, defaults 132 V dropout, 175 V pick up.
Generator voltage sensing	Constantly monitors generator voltage to ensure 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 second by a qualified dealer.
Engine warm-up	Ensures 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 minute every other week. Also offers a selectable setting for weekly or monthly operation providing flexibility and potential 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.
Electronic governor	Maintains constant 60 Hz frequency.

SAE weather protective enclosure
 Sound attenuated enclosures ensure quiet operation and protection against mother nature, withstanding winds up to 150 mph. 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
 Small, compact, attractive
 Makes for an easy, eye appealing installation, as close as 18" away from a building.

20 kW

GENERAC

features and benefits

Installation System

20 kW

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- 1 ft (305 mm) flexible fuel line connector
 Direct-to-dirt composite mounting pad
 Integral sediment trap
 Absorbs any generator vibration when connected to rigid pipe.
 Complex lattice design prevents settling or sinking of the generator system.
 Prevents particles and moisture from entering the fuel regulator and engine, prolonging engine life.
 Remote Monitoring
 Ability to view generator status
 Monitor your generator via your 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
- Ability to view generator maintenance Provides maintenance information for your specific model generator when scheduled maintenance is due information
- Monthly report with previous month's activity
 Detailed monthly report
- Ability to view generator battery information E
- Detailed monthly reports provide historical generator information Built in battery diagnostics displaying current state of the battery

GENERAC

specifications

20 kW

Generator	0007077 4
Nodel	G007077-1
Rated Maximum Continuous Power Capacity (LP)	20,000 Watts*
Rated Maximum Continuous Power Capacity (NG)	17,000 Watts*
lated Voltage	208
ated Maximum Continuous Load Current – 208 Volts (LP/NG)	69.4/59.0
otal Harmonic Distortion	Less than 5%
fain Line Circuit Breaker	80 Amp
hase	3
lumber of Rotor Poles	2
lated AC Frequency	60 Hz
ower Factor	0.8
	12 Volts, Group 26R 540 CCA Minimum or Group 35AGM 650 CCA Min
Battery Requirement (not included)	
Init Weight (Ib/kg)	466/211
Vimensions (L x W x H) in/mm	48 x 25 x 29/1218 x 638 x 732
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load**	67
Sound output in dB(A) at 23 ft (7 m) with generator in Quiet-Test™ low-speed exercise mode**	58
xercise duration	5 min
ingine	
-	
ype of Engine	GENERAC G-Force 1000 Series
lumber of Cylinders	2
Displacement	999 cc
Cylinder Block	Aluminum w/ Cast Iron Sleeve
valve Arrangement	Overhead Valve
gnition System	Solid-state w/ Magneto
Governor System	Electronic
Compression Ratio	9.5:1
Starter	12 VDC
Dil Capacity Including Filter	Approx. 1.9 qt/1.8 L
Dperating rpm	3,600
Fuel Consumption	
vatural Gas - ft ³ /hr (m ³ /hr)	
	1/2 Load 219 (6.20)
Vatural Gas - ft³/hr (m³/hr)	, , , , , , , , , , , , , , , , , , , ,
	Full Load 307 (8.69)
Vatural Gas - ft³/hr (m³/hr)	Full Load 307 (8.69) 1/2 Load 87 (2.39) [9.03]
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4 of 5

GENERAC

available accessories

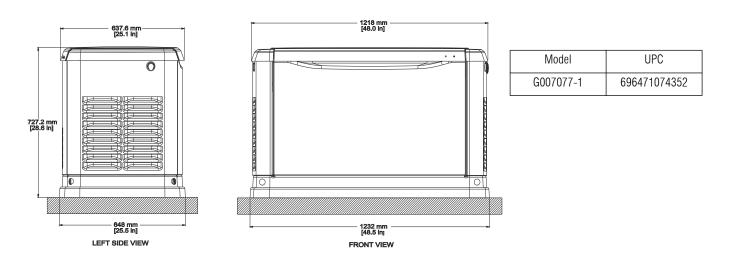
Model #	Product	Description
G005819-0	26R Wet Cell Battery	Every standby generator requires a battery to start the system. Generac offers the recommended 26R wet cell battery for use with all air-cooled standby product.
G007101-0	Battery Pad Warmer	The pad warmer rests under the battery. Recommended for use if the temperature regularly falls below $0^{\circ}F$ (-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.
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	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch up a generator enclosure.
G006485-0	Scheduled Maintenance Kit	Generac's scheduled maintenance kits provide all the hardware necessary to perform complete routine maintenance on a Generac automatic standby generator.
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 making sure your generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify when your LP tank is in need of a refill.

*Only applicable for the United States.

20 kW

dimensions & UPCs

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





Generac Power Systems, Inc. • S45 W29290 HWY. 59, Waukesha, WI 53189 • generac.com

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