



# GENERAC® GUARDIAN® SERIES STANDBY GENERATORS

## 10 kW & 14 kW

### Air-Cooled Gas Engine Generator Sets

#### INCLUDES:

- True Power® Electrical Technology
- Two Line LCD Tri-lingual Digital Nexus™ Controller
- Electronic Governor
- 200 Amp Service Rated Nexus Smart Switch™ with Digital Load Management Technology, NEMA 3R Rated
- External Main Circuit Breaker, System Status & Maintenance Interval LED Indicators
- Sound Attenuated Enclosure
- Flexible Fuel Line Connector
- Composite Mounting Pad
- Natural Gas or LP Gas Operation
- 3 Year Limited Warranty
- UL 2200 Listed

Standby Power Rating  
 Model 006051-1 (Steel - Bisque) - 10 kW 60Hz  
 Model 006052-1 (Steel - Bisque) - 14 kW 60Hz



## FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **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.
- **TEST CRITERIA:**
  - ✓ PROTOTYPE TESTED
  - ✓ NEMA MG1-22 EVALUATION
  - ✓ SYSTEM TORSIONAL TESTED
  - ✓ MOTOR STARTING ABILITY
- **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. An unequalled ±1% voltage regulation.
- **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

## Generac® Guardian® Series Standby Generator - 10 kW & 14 kW

ENGINE	<ul style="list-style-type: none"> <li>•Generac (OHVI) Design</li> </ul>	Maximizes engine “breathing” for increased fuel efficiency. Plateau honed cylinder walls and plasma moly rings help engine run cooler, reducing oil consumption. Because heat is the primary cause of engine wear, the OHVI has a significantly longer life than competitive engines.
	<ul style="list-style-type: none"> <li>•”Spiny-lok” cast iron cylinder walls</li> </ul>	Rigid construction and added durability provide long engine life.
	<ul style="list-style-type: none"> <li>•Electronic ignition/spark advance</li> </ul>	These features combine to assure smooth, quick starting every time.
	<ul style="list-style-type: none"> <li>•Full pressure lubrication system</li> </ul>	Superior lubrication to all vital bearings means better performance, less maintenance and significantly longer engine life. Now featuring a 2 year/200 hour oil change interval.
	<ul style="list-style-type: none"> <li>•Low oil pressure shutdown system</li> <li>•High temperature shutdown</li> </ul>	Superior shutdown protection prevents catastrophic engine damage due to low oil. Prevents damage due to overheating.
GENERATOR	<ul style="list-style-type: none"> <li>•Revolving field</li> </ul>	Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
	<ul style="list-style-type: none"> <li>•Skewed stator</li> </ul>	Produces a smooth output waveform for compatibility with electronic equipment.
	<ul style="list-style-type: none"> <li>•Displaced phase excitation</li> </ul>	Maximizes motor starting capability.
	<ul style="list-style-type: none"> <li>•Automatic voltage regulation</li> </ul>	Regulates the output voltage to $\pm 1\%$ prevents damaging voltage spikes.
	<ul style="list-style-type: none"> <li>•UL 2200 Listed</li> </ul>	For your safety.
TRANSFER SWITCH	<ul style="list-style-type: none"> <li>•Fully Automatic</li> </ul>	Transfers your vital electrical loads to the energized source of power.
	<ul style="list-style-type: none"> <li>•DLM Technology</li> </ul>	Digital Load Management technology allows for the smart control of two air conditioners without any additional items.
	<ul style="list-style-type: none"> <li>•Remote Mounting</li> </ul>	Mounts near your existing distribution panel for simple, low cost installation.
	<ul style="list-style-type: none"> <li>•UL Listed</li> </ul>	For your safety.
NEXUS™ CONTROLS	<ul style="list-style-type: none"> <li>•Manual/Auto/Off switch</li> </ul>	Selects the operating mode.
	<ul style="list-style-type: none"> <li>•Utility voltage sensing</li> </ul>	Constantly monitors utility voltage, setpoints 60% dropout, 80% pick-up, of standard voltage.
	<ul style="list-style-type: none"> <li>•Generator voltage sensing</li> </ul>	Constantly monitors generator voltage to ensure the cleanest power delivered to the home.
	<ul style="list-style-type: none"> <li>•Utility interrupt delay</li> </ul>	Prevents nuisance start-ups of the engine, adjustable 10-30 seconds.
	<ul style="list-style-type: none"> <li>•Engine warm-up</li> </ul>	Ensures engine is ready to assume the load, setpoint approximately 5 seconds.
	<ul style="list-style-type: none"> <li>•Engine cool-down</li> </ul>	Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
	<ul style="list-style-type: none"> <li>•Programmable seven day exerciser</li> </ul>	Operates engine to prevent oil seal drying and damage between power outages by running the generator for 12 minutes every week.
	<ul style="list-style-type: none"> <li>•Smart battery charger</li> </ul>	Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature.
	<ul style="list-style-type: none"> <li>•Main Line Circuit Breaker</li> </ul>	Protects generator from overload.
UNIT	<ul style="list-style-type: none"> <li>•Weather protective enclosure</li> </ul>	Ensures protection against mother nature. 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.
	<ul style="list-style-type: none"> <li>•Enclosed critical grade muffler</li> </ul>	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
	<ul style="list-style-type: none"> <li>•Small, compact, attractive</li> </ul>	Makes for an easy, eye appealing installation.
	<ul style="list-style-type: none"> <li>•SAE</li> </ul>	Sound attenuated enclosure ensures quiet operation.
	<ul style="list-style-type: none"> <li>•1' Flexible Fuel Line Connector</li> <li>•Composite Mounting Pad</li> </ul>	Easy Installation.
INSTALLATION SYSTEM		

# SPECIFICATIONS

**GENERAC®**

GENERATOR	Model 006051-1 (10 kW)	Model 006052-1 (14 kW)
Rated Maximum Continuous Power Capacity (LP)	10,000 Watts*	14,000 Watts*
Rated Maximum Continuous Power Capacity (NG)	9,000 Watts*	13,000 Watts*
Rated Voltage	240	240
Rated Maximum Continuous Load Current – 240 Volts	41.6 LP/37.5 NG	58.3 LP/54.2 NG
Total Harmonic Distortion	Less than 5%	Less than 5%
Main Line Circuit Breaker	45 Amp	60 Amp
Phase	1	1
Number of Rotor Poles	2	2
Rated AC Frequency	60Hz	60Hz
Power Factor	1	1
Battery Requirement (not included)	Group 26R 12 Volts and 525 Cold-cranking Amperes Minimum	Group 26R 12 Volts and 525 Cold-cranking Amperes Minimum
Unit Weight (Pounds/Kilos)	387/175.4	439/199.1
Dimensions (L x W x H) Inches/mm	48 x 25 x 29 (1218 x 638 x 732)	
Sound output in dB(A) at 23 ft. with generator operating at normal load	63	66
ENGINE	Model 006051-1 (10 kW)	Model 006052-1 (14 kW)
Type of Engine	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Number of Cylinders	2	2
Displacement	530cc	992cc
Cylinder Block	Aluminum w/Cast Iron Sleeve	Aluminum w/Cast Iron Sleeve
Valve Arrangement	Overhead Valve	Overhead Valve
Ignition System	Solid-state w/Magneto	Solid-state w/Magneto
Governor System	Electronic	Electronic
Compression Ratio	9.5:1	9.5:1
Starter	12 Vdc	12 Vdc
Oil Capacity Including Filter	Approx. 1.7 Qts./1.6L	Approx. 1.9 Qts./1.8L
Operating RPM	3,600	3,600
Fuel Consumption		
Natural Gas	cu.ft./hr.	
	1/2 Load	
	Full Load	156
Liquid Propane ft <sup>3</sup> /hr (gal/hr) [Liter/hr]		220
	1/2 Load	58 (1.56) [5.91]
	Full Load	70 (1.93) [7.31]
Required fuel pressure to generator fuel inlet at all load ranges - 5 to 7 inches of water column for natural gas, 10 to 12 inches of water column for LP gas For Btu content, multiply ft <sup>3</sup> /hr x 2520 (LP) or ft <sup>3</sup> /hr x 1000 (NG)		
CONTROLS		
2-Line Plain Text LCD Display (10 & 14 kW)	Simple user interface for ease of operation	
Mode Switch		
-Auto	Automatic Start on Utility failure. 7 day exerciser	
-Off	Stops unit. Power is removed. Control and charger still operate.	
-Manual/Test (start)	Start with starter control, unit stays on. If utility fails, transfer to load takes place.	
Programmable start delay between 10-30 seconds	Standard	
Engine Start Sequence	Cyclic cranking: 16 sec. on, 7 rest (90 sec. maximum duration)	
Engine Warm-up	5 seconds	
Engine Cool-Down	1 minute	
Starter Lock-out	Starter cannot re-engage until 5 sec. after engine has stopped.	
Smart Battery Charger	Standard	
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard	
Automatic Low Oil Pressure Shutdown	Standard	
Overspeed Shutdown	Standard, 72Hz	
High Temperature Shutdown	Standard	
Overcrank Protection	Standard	
Safety Fused	Standard	
Failure to Transfer Protection	Standard	
Low Battery Protection	Standard	
50 Event Run Log	Standard	
Future Set Capable Exerciser	Standard	
Incorrect Wiring Protection	Standard	
Internal Fault Protection	Standard	
Common External Fault Capability	Standard	

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 wattage and current are subject to and limited by such factors as fuel Btu content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases about 3.5 percent for each 1,000 feet above sea level; and also will decrease about 1 percent for each 12° C (10° F) above 15.5° C (60° F).

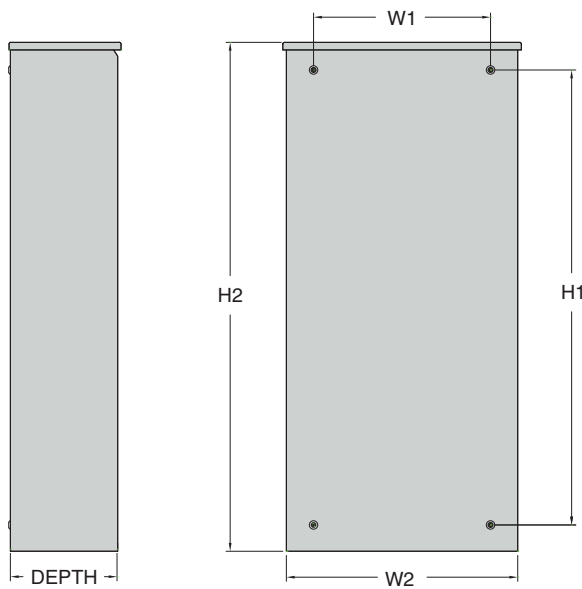
# Generac® Guardian® Series Guardian Standby Generator - 10 kW & 14 kW

## TRANSFER SWITCH

No. of Poles	2
Current Rating (amps)	200
Voltage Rating (VAC)	250
Utility Voltage Monitor (fixed) (Function of Nexus Controller)	
-Pick-up	80%
-Dropout	60%
Return to Utility (Function of Nexus Controller)	approx. 13 sec.
Exerciser weekly for 12 minutes (Function of Nexus Controller)	Standard
UL Listed	Standard
Enclosure Type	NEMA 3R
Withstand Rating (Amps)	10,000
Lug Range	400MCM - #4

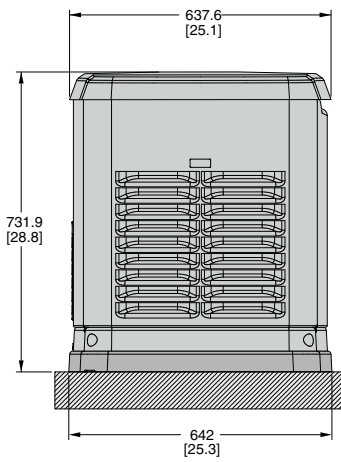
## Transfer Switch Features

- Includes Digital Load Management technology standard (DLM).
- Intelligently manages two air conditioner loads with no additional hardware.
- Up to four more large (240V) loads can be managed when used in conjunction with DLM modules.
- Electrically operated, mechanically-held contacts for fast, clean connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- Dual coil design.
- Service Rated.
- NEMA 3R aluminum outdoor enclosure.
- Main contacts are silver plated or silver alloy to resist welding and sticking.

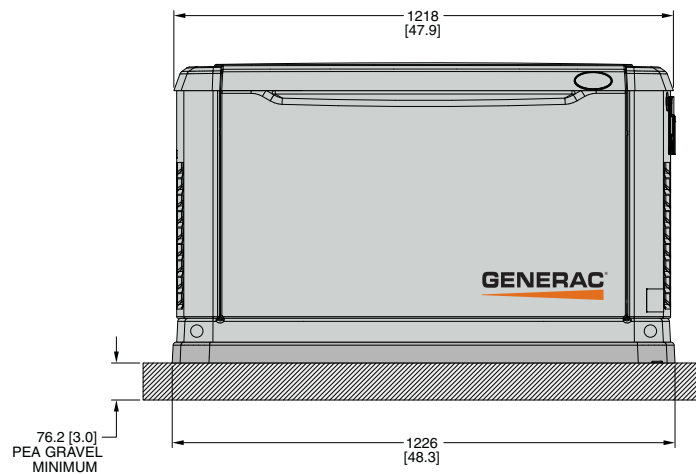


	200 Amps 120/240, 1Ø Open Transition Service Rated				
	Height		Width		Depth
	H1	H2	W1	W2	
Inches	27.24	30.0	11.4	13.5	7.09
mm	692.0	762.4	289.0	343.0	180.0

Design and specifications subject to change without notice. Dimensions shown are approximate. Contact your Generac dealer for certified drawings. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.



LEFT SIDE VIEW



FRONT VIEW

## AVAILABLE ACCESSORIES

Model #	Product	Description
5819	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.
5948 - 8 & 10kW 5947 - 13kW	Cold Weather Kit	If the temperature regularly falls below 32° F, install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
5621	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.
5703	Paint Kit	Bisque Kit
5662 - 8kW 5663 - 10kW 5664 - 13kW	Scheduled Maintenance Kit	Generac's scheduled maintenance kits provide all the hardware necessary to perform complete routine maintenance on a Generac automatic standby generator.
5928	Nexus Wireless Remote	Completely wireless and battery powered, Generac's Nexus wireless remote monitor provides you with instant status information without ever leaving the house.
5951	Advanced Nexus Wireless Remote	Remotely control generator functions with the advanced model's LCD display. In addition to remote testing of the generator, set the exercise cycle and maintenance interval reminders.
5937	DLM Load Control Module (50 Amps)	DLM Modules are used in conjunction with the Nexus Smart Switch to increase its load management capabilities. It gives the Nexus Smart Switch additional load management flexibility not found in any other transfer switch.