

GENERAC® GUARDIAN® SERIES STANDBY GENERATORS - PREPACKAGED 8 kW - 10 kW - 14 kW

Air-Cooled Gas Engine Generator Sets

INCLUDES:

- True Power® Electrical Technology
- Two Line LCD Tri-lingual Digital Nexus™ Controller
- 10, 12 or 14 Circuit Automatic Transfer Switch with Built-In Priority Load Center
- Electronic Governor
- Pre-wired External Connection Box
- External Main Circuit Breaker
 & System Status LED Indicators
- Sound Attenuated Enclosure
- Flexible Fuel Line Connector
- Composite Mounting Pad
- Pre-wired conduits
- Natural Gas or LP Gas Operation
- 3 Year Limited Warranty
- UL 2200 Listed





Model 005870-1 (Steel - Bisque) - 8 kW 60Hz

Model 005871-1 (Steel - Bisque) - 10 kW 60Hz

Model 005872-1 (Steel - Bisque) - 14 kW 60Hz

Standby Power Rating

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.
- O TEST CRITERIA:
 - ✓ PROTOTYPE TESTED
- ✓ NEMA MG1-22 EVALUATION
- ✓ SYSTEM TORSIONAL TESTED
- MOTOR STARTING ABILITY

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. An unequalled $\pm 1\%$ 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.





	•Generac (OHVI) Design	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.			
	• "Spiny-lok" cast iron cylinder walls	Rigid construction and added durability provide long engine life.			
ENGINE	Electronic ignition/spark advance	These features combine to assure smooth, quick starting every time.			
Ä	•Full pressure lubrication system	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.			
	•Low oil pressure shutdown system	Superior shutdown protection prevents catastrophic engine damage due to low oil.			
	High temperature shutdown	Prevents damage due to overheating.			
	•Revolving field	Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature general			
TOR	•Skewed stator	Produces a smooth output waveform for compatibility with electronic equipment.			
ERA	Displaced phase excitation	Maximizes motor starting capability.			
GENERATOR	 Automatic voltage regulation 	Regulates the output voltage to $\pm 1\%$ prevents damaging voltage spikes.			
	•UL 2200 Listed	For your safety			
œ	• Fully Automatic	Transfers your vital electrical loads to the energized source of power.			
SFEI	• Pre-wired, color coded conduits	Ensures the easiest, trouble free installation.			
TRANSFER SWITCH	Remote Mounting	Mounts near your existing distribution panel for simple, low cost installation.			
F "	•UL Listed	For your safety			
	• Manual/Auto/Off switch	Selects the operating mode.			
	 Utility voltage sensing 	Constantly monitors utility voltage, setpoints 60% dropout, 80% pick-up, of standard voltage.			
တ	Generator voltage sensing	Constantly monitors generator voltage to ensure the cleanest power delivered to the home.			
S™ CONTROLS	 Utility interrupt delay 	Prevents nuisance start-ups of the engine, adjustable 10-30 seconds.			
DNT	Engine warm-up	Ensures engine is ready to assume the load, setpoint approximately 5 seconds.			
ē	Engine cool-down	Allows engine to cool prior to shutdown, setpoint approximately 1 minute.			
NEXUS	Programmable seven day exerciser	Operates engine to prevent oil seal drying and damage between power outages by running the generator for 12 minutes every week.			
2	•Smart battery charger	Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature.			
	•Main Line Circuit Breaker	Protects generator from overload.			
	Electronic governor	Maintains constant 60 Hz frequency.			
	Weather protective enclosure	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.			
UNIT	 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.			
	•SAE	Sound attenuated enclosure ensures quiet operation			
INSTALLATION SYSTEM	 Pre-wired External Connection Box 1' Flexible Fuel Line Connector Composite Mounting Pad Pre-wired conduits UL Listed wire nuts 	Easy Installation - Virtually all hardware included, plus step-by-step photographed Installation Guide.			
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Common External Fault Capability



GENERATOR	Model 005870-1 (8 kW)	Model 005871-1 (10 kW)	Model 005872-1 (14 kW)
Rated Maximum Continuous Power Capacity (LP)	8,000 Watts*	10,000 Watts*	14.000 Watts*
Rated Maximum Continuous Power Capacity (NG)	7,000 Watts*	9,000 Watts*	13,000 Watts*
Rated Voltage	240	240	240
Rated Maximum Continuous Load Current – 240 Volts	33.3 LP/29.2 NG	41.6 LP/37.5 NG	58.3 LP/54.2 NG
Total Harmonic Distortion	Less than 5%	Less than 5%	Less than 5%
Main Line Circuit Breaker	35 Amp	45 Amp	60 Amp
Phase	1	1	1
Number of Rotor Poles	2	2	2
Rated AC Frequency	60Hz	60Hz	60Hz
Power Factor	1	1	1
Battery Requirement (not included)	• .	Group 26R 12 Volts and 525 n Cold-cranking Amperes Minimum	.
Unit Weight (Pounds/Kilos)	340/154.2	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	62	63	66
ENGINE	Model 005870-1 (8 kW)	Model 005871-1 (10 kW)	Model 005872-1 (14 kW)
Type of Engine	GENERAC OHVI	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Number of Cylinders	1	2	2
Displacement	410cc	530cc	992cc
Cylinder Block	Aluminum w/Cast Iron Sleeve	Aluminum w/Cast Iron Sleeve	Aluminum w/Cast Iron Sleeve
Valve Arrangement	Overhead Valve	Overhead Valve	Overhead Valve
Ignition System	Solid-state w/Magneto	Solid-state w/Magneto	Solid-state w/Magneto
Governor System	Electronic	Electronic	Electronic
Compression Ratio	9.4:1	9.5:1	9.5:1
Starter	12 Vdc	12 Vdc	12 Vdc
Oil Capacity Including Filter	Approx. 1.5 Qts./1.4L	Approx. 1.7 Qts./1.6L	Approx. 1.9 Qts./1.8L
Operating RPM	3,600	3,600	3,600
Fuel Consumption			
Natural Gas cu.ft./hr.			
1/2 Load	77	100	150
Full Load	139	102 156	156 220
Liquid Propane ft ³ /hr (gal/hr) [Liter/hr]	133	130	220
1/2 Load	34 (0.94) [3.56]	46 (1.25) [4.73]	58 (1.56) [5.91]
Full Load	62 (1.68) [6.36]	70 (1.93) [7.31]	84 (2.30) [8.71]
Required fuel pressure to generator fuel inlet at all load ranges - 5 to 7 inc For Btu content, multiply $\rm ft^3/hr \ x \ 2520 \ (LP)$ or $\rm ft^3/hr \ x \ 1000 \ (NG)$			
CONTROLS			
2-Line Plain Text LCD Display	Simr	ole user interface for ease of operat	ion
Mode Switch	3,	ore deer internace for each or operation	
-Auto	Automa	tic Start on Utility failure. 7 day exe	rciser
-Off		ver is removed. Control and charger	
-Manual/Test (start)		I, unit stays on. If utility fails, transf	
Programmable start delay between 10-30 seconds		Standard	· ·
Engine Start Sequence	Cyclic cranking	: 16 sec. on, 7 rest (90 sec. maxin	num 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 Canability		Standard	

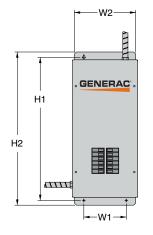
Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). * Maximum wattage and current are subject to and limited by such factors 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).

Standard

EZ SWITCH™ & Load center	Model 005870-1 (8 kW)	Model 005871-1 (10 kW)	Model 005872-1 (14 kW)
No. of Poles	2	2	2
Current Rating (amps)	100	100	100
Voltage Rating (VAC)	250	250	250
Utility Voltage Monitor (fixed)			
-Pick-up	80%	80%	80%
-Dropout	60%	60%	60%
Return to Utility	approx. 15 sec.	approx. 15 sec.	approx. 15 sec.
Exerciser weekly for 12 minutes	Standard	Standard	Standard
UL Listed	Standard	Standard	Standard
Dimensions (H" x W" x D") Inches(mm)	26.5	x 12.5 x 7 (658 x 308 x	(172)
Total of Pre-wired Circuits	10	12	14
No. 15A 120V	3	5	4
No. 20A 120V	3	3	6
No. 20A 240V	1	-	1
No. 30A 240V	1	1	-
No. 40A 240V	-	1	1
No. 50A 240V	-	-	-
Circuit Breaker Protected Available RMS Symmetrical			
Fault Current @ 250 Volts	10,000	10,000	10,000

EZ Switch™ Features

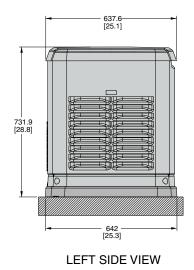
- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2 pole, 250 VAC contactors.
- 160 millisecond transfer time.
- · Dual coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 1 (indoor rated) enclosure is standard on the 100 amp switch.
- Pre-wired 30 foot (9.1 meter) whip to connect to the pre-wired external connection box.
- Pre-wired 2 foot (0.61 meter) whip, color coded to connect into the existing electrical panel.

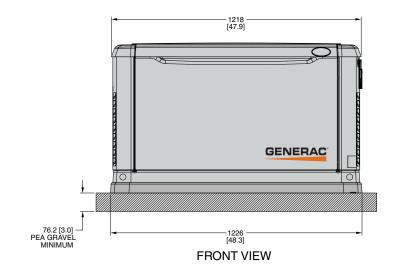


Mechanical Dimensions (in inches)						
Current	No. of	Hei	ght	Wi	dth	Depth
Rating	Poles	H1	H2	W1	W2	
100 UL Listed	2	26.5 in	29.25 in	8.14 in	12.5 in	7
		673mm	743mm	207mm	317.5mm	178mm

Terminal Wire Ranges					
ATS Rated Amps	Switch Terminal	Neutral Lug/Stud	Ground Lug		
100A 2-Pole UL	1 x 1/0-12	1 x 3/8-16 Stud	1 x 2/0-14		

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.





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 - 14kW	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 - 14kW	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 excercise cycle and maintenance interval reminders

