

GENERAC GUARDIAN SERIES STANDBY GENERATORS

17 kW

Air-Cooled Gas Engine Generator Sets

Standby Power Rating

Model 005873-0 (Steel - Bisque) - 17 kW 60Hz Model 005874-0 (Aluminum - Gray) - 17 kW 60Hz

INCLUDES:

- True Power® Electrical Technology
- Two Line LCD Tri-lingual Digital Nexus Controller
- 16 Circuit EZ Automatic Transfer Switch with Built-In Priority Load Center
- Electronic Governor
- Pre-wired External Connection Box
- External Main Circuit Breaker,
 System Status & Maintenance Interval
 LED Indicators and GFCI Duplex Outlet
- Flexible Fuel Line Connector
- Composite Mounting Pad
- Pre-wired conduits
- Natural Gas or LP Gas Operation
- UL 2200 Listed











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

- 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
 - 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		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.		
	• Electronic ignition/spark advance	These features combine to assure smooth, quick starting every time.		
H	•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 generator.		
TO R	• Skewed stator	Produces a smooth output waveform for compatibility with electronic equipment.		
ERA1	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		
~	•Fully Automatic	Transfers your vital electrical loads to the energized source of power.		
E E	• 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 65% dropout, 75% pick-up, of standard voltage.		
	Generator voltage sensing	Constantly monitors generator voltage to ensure the cleanest power delivered to the home.		
ST0	 Utility interrupt delay 	Prevents nuisance start-ups of the engine, setpoint approximately 10 seconds.		
CONTROLS	Engine warm-up	Ensures engine is ready to assume the load, setpoint approximately 10 seconds.		
00 0	•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.		
	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.		
E	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.		
LIND	•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.		
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.		
=	•UL LISTED WIFE NUTS			

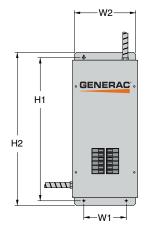


GENERATOR	Model 005873-0 (17 kW)	Model 005874-0 (17 kW)
Rated Maximum Continuous Power Capacity (LP)	17,000 Watts*	17,000 Watts*
Rated Maximum Continuous Power Capacity (NG)	16,000 Watts*	16,000 Watts*
Rated Voltage	120/240	120/240
Rated Maximum Continuous Load Current – 240 Volts Total Harmonic Distortion	70.8 LP/66.6 NG Less than 5%	70.8 LP/66.6 NG Less than 5%
Main Line Circuit Breaker		
Phase	65 Amp	65 Amp 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	Group 26R 12 Volts and 525
	Cold-cranking Amperes Minimum	Cold-cranking Amperes Minimum
Unit Weight	455 Pounds	414 Pounds
Dimensions (L" x W" x H")	48 x 25 x 29	48 x 25 x 29
Sound output in dB(A) at 23 ft. with generator operating at normal load	66	66
Sound output in dB(A) at 23 ft. with generator in Quiet-Test™ low speed exercise mode	60	60
ENGINE	Model 005873-0 (17 kW)	Model 005874-0 (17 kW)
Type of Engine	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Number of Cylinders	2	2
Displacement	992cc	992cc
Cylinder Block	Aluminum w/Cast	Aluminum w/Cast
•	Iron Sleeve	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. 1.9 Qts./1.8L	Approx. 1.9 Qts.?1.8L
Operating RPM	3,600	3,600
Fuel Consumption		
Natural Gas cu.ft./hr.		
1/2 Load	183	183
Full Load	261	261
Liquid Propane ft ³ /hr (gal/hr)	50 (4.04)	50 (4.00)
1/2 Load Full Load	59 (1.61) 94 (2.57)	59 (1.61)
Required fuel pressure to generator fuel inlet at all load ranges - 5 to 7 inches of water col	,	94 (2.57)
	anni for natural gao, 10 to 12 monoc of water	oolaliiii lor Er gao
CONTROLS		
2-Line Plain Text LCD Display	Simple user interface	for ease of operation
Mode Switch -Auto	Automatic Start on Utility	failure 7 day evereiger
-nuto	Stops unit. Power is removed. Co	
-Manual/Test (start)	Start with starter control, unit stays on. If	
Programmable start delay between 10-30 seconds	Stand	
Engine Start Sequence	Cyclic cranking: 16 sec. on, 7 re	
Engine Warm-up	10 sec	
Engine Cool-Down	1 mir	
Starter Lock-out	Starter cannot re-engage until 5	sec. after engine has stopped.
Smart Battery Charger	Stand	lard
Automatic Voltage Regulation with Over and Under Voltage Protection	Stand	lard
Automatic Low Oil Pressure Shutdown	Stand	
Overspeed Shutdown	Standard	
High Temperature Shutdown	Stand	
Overcrank Protection	Stand	
Safety Fuse	Stand	
Failure to Transfer Protection	Stand	
Low Battery Protection	Stand	
50 Event Run Log	Stand	
Future Set Capable Exerciser	Stand	
Incorrect Wiring Protection	Stand	
Internal Fault Protection	Stand	
Common External Fault Capability	Stand	aru

EZ TRANSFER SWITCH & Load center	Model 005873-0 (17 kW)	Model 005874-0 (17 kW)
No. of Poles	2	2
Current Rating (amps)	100	100
Voltage Rating (VAC)	250	250
Utility Voltage Monitor (fixed)		
-Pick-up	75%	75%
-Dropout	65%	65%
Return to Utility	approx. 15 sec.	approx. 15 sec.
Exerciser weekly for 12 minutes	Standard	Standard
UL Listed	Standard	Standard
Dimensions (H" x W" x D")	26.5 x 12.5 x 7	26.5 x 12.5 x 7
Total of Pre-wired Circuits	16	16
No. 15A 120V	5	5
No. 20A 120V	5	5
No. 20A 240V	1	1
No. 40A 240V	1	1
No. 50A 240V	1	1
Circuit Breaker Protected Available RMS Symmetrical		
Fault Current @ 250 Volts	10,000	10,000

EZ Transfer Switch Features

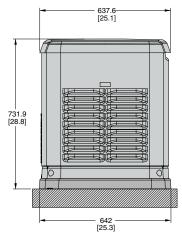
- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2 pole, 250 VAC contactors.
- 160 millisecond transfer time.
- · Dual coil design.
- Main contacts are silver plated or silver alloy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



Mechanical Dimensions (in inches)						
Current	No. of	Hei	ght	Wid	dth	Depth
Rating	Poles	H1	H2	W1	W2	
100 UL Listed	2	26.5	29.25	8.14	12.5	7

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.



LEFT SIDE VIEW

