STANDBY GENERATORS

17 kW

Air-Cooled Gas Engine Generator Sets

INCLUDES:

®

Continuous Standby Power Rating

Model 05504 (Steel - Bisque) - 17 kW 60Hz

Model 05505 (Aluminum - Gray) - 17 kW 60Hz

WHISPER-TEST™

c UL us 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 SYSTEM S 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.

SINGLE SOURCE SERVICE RESPONSE from Generac's dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component. You are never on your own when you own a GENERAC POWER SYSTEM.

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.

GUARDIAN®
by Generac Power Systems, Inc.

SPECIFICATIONS

Home Standby - 17 kW

ENGINE	compression release	Maximizes engine "breathing" for increased fuel efficiency. Plateau honed cylinder walls and plasma molly 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. Rigid construction and added durability provide long engine life. , These features combine to assure smooth, quick starting every time. 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. Superior shutdown protection prevents catastrophic engine damage due to low oil. Prevents damage due to overheating.
GENERATOR		Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature generator. Produces a smooth output waveform for compatibility with electronic equipment. Maximizes motor starting capability. Provides more surge capability than brushless generator designs. Regulates the output voltage to ±2% prevents damaging voltage spikes. For your safety
TRANSFER SWITCH		Transfers your vital electrical loads to the energized source of power. Mounts near your existing distribution panel for simple, low cost installation. For your safety-
CONTROLS		Selects the operating mode. Constantly monitors utility voltage, setpoints 65% dropout, 75% pick-up, of standard voltage. Prevents nuisance start-ups of the engine, adjustable 10-30 seconds. Ensures engine is ready to assume the load, setpoint approximately 10 seconds. Allows engine to cool prior to shutdown, setpoint approximately 1 minute. Operates engine to prevent oil seal drying and damage between power outages. Maintains battery amperage to insure starting. Protects generator from overload.
UNIT		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. Model 05505 has an aluminum enclosure. Quiet, critical grade muffler is mounted inside the unit to prevent injuries. Makes for an easy, eye appealing installation.
INSTALLATION SYSTEM		Easy Installation - Virtually all hardware included, plus step-by-step photographed Installation Guide.

Home Standby - 17 kW

GUARDIAN by Generac Power Systems, Inc.

GENERATOR			Model 05504 (17 kW)	Model 05505 (17 kW)
Rated Voltage			120/240	120/240
Rated Maximum Continuous Load Current				
120 Volts			141.6 LP/133.3 NG	141.6 LP/133.3 NG
240 Volts			70.8 LP/66.6 NG	70.8 LP/66.6 NG
Total Harmonic Distortion			Less than 5%	Less than 5%
Main Line Circuit Breaker			65 Amp	65 Amp
Phase			1	1
Number of Rotor Poles			2	2
Rated AC Frequency			60Hz	60Hz
Power Factor			1	1
			Group 26 12 Volts and 525 Cold-cranking Amperes Minimum	Group 26 12 Volts and 525 Cold-cranking Amperes Minimum
Unit Weight			445 Pounds	414 Pounds
			48 x 25 x 29	48 x 25 x 29
			66	66
	Whisper-Test™	low speed exercise mode	60	60

ENGINE			Model 05504 (17 kW)	Model 05505 (17 kW)
Type of Engine			GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Number of Cylinders			2	2
Rated Horsepower			32 @ 3,600 rpm	32 @ 3,600 rpm
Displacement			992cc	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.	Approx. 1.7 Qts.
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			
	1/2 Load			
	Full Load			

Required fuel pressure to generator fuel inlet at all load ranges - 5 to 7 inches of water column for natural gas, 11 to 14 inches of water column for LP gas

CONTROLS	
2-Line Plain Text LCD Display	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.
	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Engine Start Sequence	
Engine Warm-up	10 seconds
Engine Cool-Down	1 minute
Starter Lock-out	Starter cannot re-engage until 5 sec. after engine has stopped.
2.5 Amp Timed Trickle Battery Charger	Standard
Automatic Voltage Regulator w/Overvoltage Protection	Standard
Automatic Low Oil Pressure Shutdown	Standard
Overspeed Shutdown	Standard, 72Hz
High Temperature Shutdown	Standard
Overcrank Protection	Standard
Safety Fuse	Standard

Home Standby - 17 kW

TRANSFER SWITCH & PRIORITY LOAD CENTER	Model 05504 (17 kW)	Model 05505 (17 kW)
No. of Poles	2	2
	100	100
	250	250
-Pick-up	75%	75%
-Dropout	65%	65%
Return to Utility	approx. 13 sec.	approx. 13 sec.
Exerciser weekly for 12 minutes	Standard	Standard
UL Listed	Standard	Standard
	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

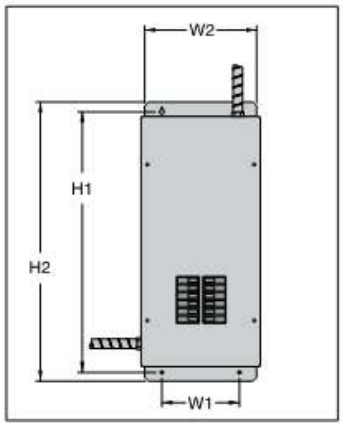
Transfer Switch Features

mechanically-held contacts for fast, positive connections.

100% equipment rated, both inductive and resistive.

or silver alloy to resist welding and sticking.

enclosure is standard on the 100 amp switch.



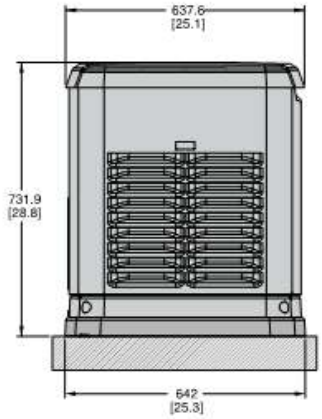
Mechanical Dimensions (in inches)

Current Rating	No. of Poles	Height H1	Height H2	Width W1	Width W2	Depth
100 UL Listed	2	26.5	29.25	8.14	12.5	7

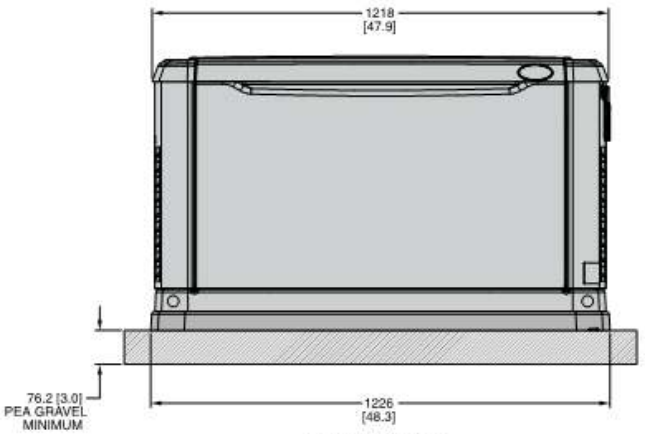
Terminal Wire Ranges

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



FRONT VIEW