STANDBY GENERATORS

8 kW - 10 kW - 14 kW

INCLUDES:

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.

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. 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. 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 - 8 kW - 10 kW - 14 kW

GUARDIAN by Generac Power Systems, Inc.

GENERATOR	Model 05501 (8 kW)	Model 05502 (10 kW)	Model 05503 (14 kW)
Rated Voltage			
Rated Maximum Continuous Load Current			
Total Harmonic Distortion	Less than 5%	Less than 5%	Less than 5%
Main Line Circuit Breaker			60 Amp
Phase			
Number of Rotor Poles	2	2	2
Rated AC Frequency	60Hz	60Hz	60Hz
Power Factor			
	Group 26	Group 26	Group 26
	Amperes Minimum	525 Cold-cranking Amperes Minimum	525 Cold-cranking Amperes Minimum
Unit Weight			
	62		66

ENGINE	Model 05501 (8 kW)	Model 05502 (10 kW)	Model 05503 (14 kW)
Type of Engine	GENERAC OHVI	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Number of Cylinders		2	2
Rated Horsepower			
Displacement			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	Mechanical	Electronic	Electronic
Compression Ratio			
Starter			
Oil Capacity Including Filter			
Operating RPM			
Fuel Consumption			
Natural Gas cu.ft./hr.			
Full Load	77		220
Liquid Propane ft			
Full Load			

CONTROLS			
	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			
Engine Cool-Down			
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		

TRANSFER SWITCH & PRIORITY LOAD CENTER	Model 05501 (8 kW)	Model 05502 (10 kW)	Model 05503 (14 kW)
No. of Poles	2	2	2
	250	250	250
-Pick-up	75%	75%	75%
-Dropout	65%	65%	65%
Return to Utility			
	Standard	Standard	Standard
UL Listed	Standard	Standard	Standard
Total of Pre-wired Circuits			
	5		
	-		-
	-	-	
	-	-	
Circuit Breaker Protected			
Available RMS Symmetrical			

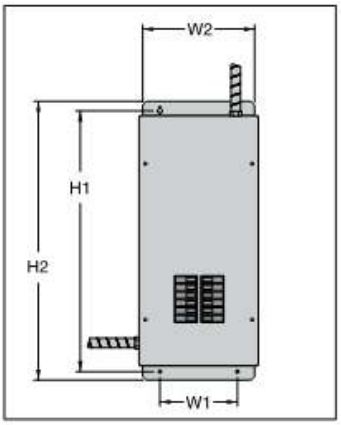
Transfer Switch Features

mechanically-held contacts for fast, positive connections.

inductive and resistive.

or silver alloy to resist welding and sticking.

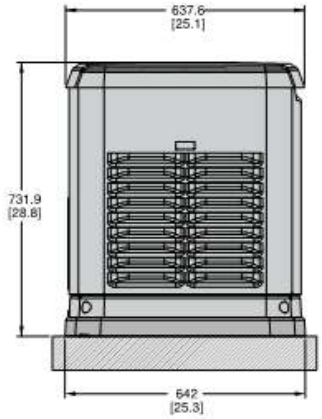
amp switch.



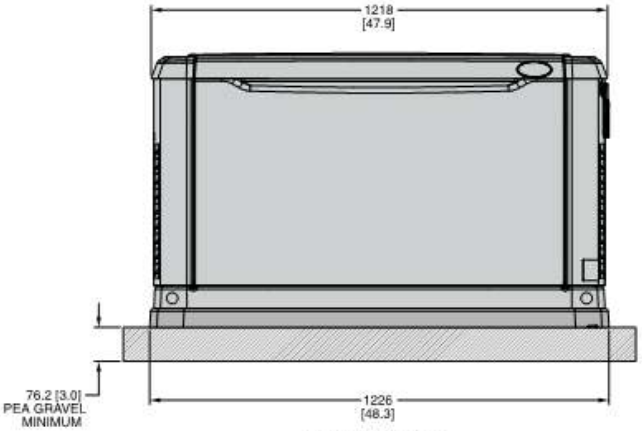
Mechanical Dimensions (in inches)						
Current Rating	No. of Poles	Height		Width		Depth
			H2		W2	
	2	26.5	29.25			7

Terminal Wire Ranges			
ATS Rated Amps	Switch Terminal	Neutral Lug/Stud	Ground Lug

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