

STANDBY GENERATORS

8 kW - 10 kW - 14 kW

Air-Cooled Gas Engine Generator Sets

Continuous Standby Power Rating

Model 05501 (Steel - Bisque) - 8 kW 60Hz Model 05502 (Steel - Bisque) - 10 kW 60Hz Model 05503 (Steel - Bisque) - 14 kW 60Hz



INCLUDES:

- True Power® Electrical Technology
- Two Line LCD Digital Controller (10 & 14 kW)
- Automatic Transfer Switch with Built-In Priority Load Center
- Electronic Governor (10 & 14 kW)
- Pre-wired External Connection Box
- External Main Circuit Breaker & System Status LED (10 & 14 kW)
- 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.
- **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.



	•Generac (OHVI) Design	Maximizes engine "breathing" for increased fuel efficiency. Plateau honed cylinder walls and plamolly rings help engine run cooler, reducing oil consumption. Because heat is the primary cause engine wear, the OHVI has a significantly longer life than competitive engines.			
ENGINE	•"Spiny-lok" cast iron cylinder walls	Rigid construction and added durability provide long engine life.,			
	•Electronic ignition, spark advance and compression release	These features combine to assure smooth, quick starting every time.			
E N	•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.			
GENERATOR	•Skewed rotor (8 & 10 kW) Skewed stator (14 kW)	Produces a smooth output waveform for compatibility with electronic equipment.			
NEB.	•Displaced phase excitation	Maximizes motor starting capability. Provides more surge capability than brushless generator designs.			
GE	Automatic voltage regulation	Regulates the output voltage to ±2% prevents damaging voltage spikes.			
	•UL 2200 Listed	For your safety			
TRANSFER SWITCH	•Fully Automatic	Transfers your vital electrical loads to the energized source of power.			
	•Remote Mounting	Mounts near your existing distribution panel for simple, low cost installation.			
TRA	•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.			
40	•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.			
H NC	•Engine cool-down	Allows engine to cool prior to shutdown, setpoint approximately 1 minute.			
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	•Seven day exerciser	Operates engine to prevent oil seal drying and damage between power outages.			
	Seven day exerciser Timed Trickle Battery charger	Operates engine to prevent oil seal drying and damage between power outages. Maintains battery amperage to insure starting.			
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-	•Timed Trickle Battery charger	Maintains battery amperage to insure starting.			
UNIT	•Timed Trickle Battery charger •Main Line Circuit Breaker	Maintains battery amperage to insure starting. Protects generator from overload. 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			
UNIT	Timed Trickle Battery charger Main Line Circuit Breaker Weather protective enclosure	Maintains battery amperage to insure starting. Protects generator from overload. 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.			
TINU	Timed Trickle Battery charger Main Line Circuit Breaker Weather protective enclosure Enclosed critical grade muffler	Maintains battery amperage to insure starting. Protects generator from overload. 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.			
NOI.	Timed Trickle Battery charger Main Line Circuit Breaker Weather protective enclosure Enclosed critical grade muffler Small, compact, attractive	Maintains battery amperage to insure starting. Protects generator from overload. 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.			
LATION UNIT	Timed Trickle Battery charger Main Line Circuit Breaker Weather protective enclosure Enclosed critical grade muffler Small, compact, attractive Pre-wired External Connection Box	Maintains battery amperage to insure starting. Protects generator from overload. 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.			
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INSTALLATION UNIT SYSTEM	Timed Trickle Battery charger Main Line Circuit Breaker Weather protective enclosure Enclosed critical grade muffler Small, compact, attractive Pre-wired External Connection Box 1' Flexible Fuel Line Connector Composite Mounting Pad	Maintains battery amperage to insure starting. Protects generator from overload. 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.			

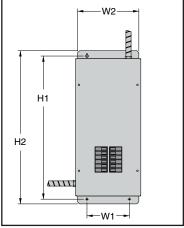


GENERATOR		Model 05501 (8 kW)	Model 05502 (10 kW)	Model 05503 (14 kW)		
	nuous Power Capacity (LP)	8,000 Watts*	10,000 Watts*	14,000 Watts*		
Rated Maximum Conti	nuous Power Capacity (NG)	7,000 Watts*	9,000 Watts*	13,000 Watts*		
Rated Voltage	, ()	120/240	120/240	120/240		
Rated Maximum Conti	nuous Load Current					
120 Volts		66.6 LP/58.3 NG	83.3 LP/75.0 NG	116.6 LP/108.3 NG		
240 Volts		33.3 LP/29.2 NG	41.6 LP/37.5 NG	58.3 LP/54.2 NG		
Total Harmonic Distort	ion	Less than 5%	Less than 5%	Less than 5%		
Main Line Circuit Brea	ker	35 Amp	45 Amp	60 Amp		
Phase		1	1	1		
Number of Rotor Poles	S	2	2	2		
Rated AC Frequency		60Hz	60Hz	60Hz		
Power Factor		1	1	1		
Battery Requirement (not included)	Group 26	Group 26	Group 26		
(,	12 Volts and	12 Volts and	12 Volts and		
		350 Cold-cranking	525 Cold-cranking	525 Cold-cranking		
		Amperes Minimum	Amperes Minimum	Amperes Minimum		
Unit Weight		336 Pounds	375 Pounds	425.5 Pounds		
Dimensions (L" x W" x	H")	48 x 25 x 29	48 x 25 x 29	48 x 25 x 29		
	at 23 ft. with generator operating at normal load	62	63	66		
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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		1	2	2		
Rated Horsepower		14.8 @ 3,600 rpm	18 @ 3,600 rpm	32 @ 3,600 rpm		
Displacement		410cc	530cc	992cc		
Cylinder Block		Aluminum w/Cast	Aluminum w/Cast	Aluminum w/Cast		
-,		Iron Sleeve	Iron Sleeve	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		8.6:1	9.5:1	9.5:1		
Starter		12 Vdc	12 Vdc	12 Vdc		
Oil Capacity Including	Filtor	Approx. 1.5 Qts.	Approx. 1.7 Qts.	Approx. 1.7 Qts.		
Operating RPM	i iitoi	3,600	3,600	3,600		
Fuel Consumption		0,000	5,000	3,000		
Natural Gas	cu.ft./hr.					
Natural Gas	1/2 Load					
		77	102	156		
	Full Load	139	156	220		
Liquid Propane	ft ³ /hr (gal/hr)					
	1/2 Load	34 (0.94)	46 (1.25)	58 (1.56)		
	Full Load	62 (1.68)	70 (1.93)	84 (2.30)		
Required fuel pressure	e to generator fuel inlet at all load ranges - 5 to 7 inch	es of water column for natural ga	s, 11 to 14 inches of water column	n for LP gas		
CONTROLS						
	Dioplay (10.9.14 k)//	Circultura	or interfece for accept an every			
2-Line Plain Text LCD	Display (10 & 14 KW)	Simple us	er interface for ease of operation			
Mode Switch -Auto		Automatic Ct	art on Litility failure. 7 day aversion	ar.		
		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.				
Engine Start Sequenc	e	Cyclic cranking: 7 sec. on, 7 rest (90 sec. maximum duration)				
Engine Warm-up		10 seconds				
Engine Cool-Down		1 minute				
Starter Lock-out		Starter cannot re-en	gage 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 Pre	ssure Shutdown		Standard			
Overspeed Shutdown			Standard, 72Hz			
	ıtdown		Standard			
High Temperature Shu	il do mi					
High Temperature Shu Overcrank Protection	Nacioni,		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).



TRANSFER SWITCH &			
PRIORITY LOAD CENTER	Model 05501 (8 kW)	Model 05502 (10 kW)	Model 05503 (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	75%	75%	75%
-Dropout	65%	65%	65%
Return to Utility	approx. 13 sec.	approx. 13 sec.	approx. 13 sec.
Exerciser weekly for 12 minutes	Standard	Standard	Standard
UL Listed	Standard	Standard	Standard
Dimensions (H" x W" x D")	26.5 x 12.5 x 7	26.5 x 12.5 x 7	26.5 x 12.5 x 7
Total of Pre-wired Circuits	8	10	14
No. 15A 120V	5	3	4
No. 20A 120V	1	3	4
No. 20A 240V	-	1	1
No. 30A 240V	1	1	-
No. 40A 240V	-	-	1
No. 50A 240V	-	-	1
Circuit Breaker Protected			
Available RMS Symmetrical			
Fault Current @ 250 Volts	10,000	10,000	10,000

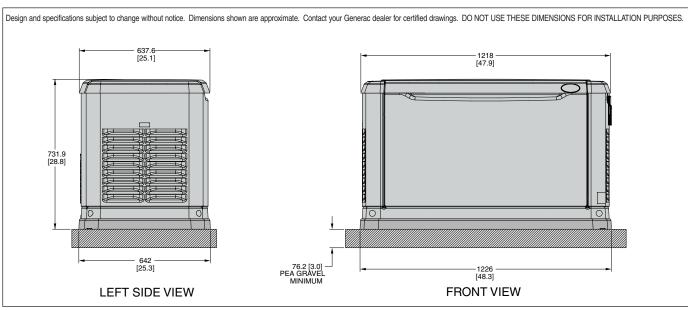


Mechanical Dimensions (in inches)						
Current	No. of	Hei	ght	Wie	dth	Depth
Rating	Poles	H1	H2	W1	W2	
100 UL Listed	2	26.5	29.25	8.14	12.5	7

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		

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.



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