

STANDBY GENERATORS

20 kW

INCLUDES:

- True Power[®] Electrical Technology
- Two Line LCD Digital Controller
- Load Shedding Automatic Transfer Switch with Built-In Priority Load Center
- Electronic Governor
- External Main Circuit Breaker, System Status & Maintenance Interval LED's and GFCI Duplex Outlet
- Pre-wired External Connection Box
- 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 \bigcirc 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: 0

- PROTOTYPE TESTED
- SYSTEM TORSIONAL TESTED

NEMA MG1-22 EVALUATION

MOTOR STARTING ABILITY

Continuous Standby Power Rating Model 05506 (Aluminum - Gray) - 20 kW 60Hz

Air-Cooled Gas Engine Generator Sets



- 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 \cap 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.



SPECIFICATIONS

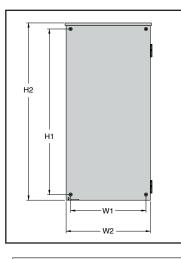
GENERATOR ENGINE	•Generac (OHVI) Design	Maximizes engine "breathing" for increased fuel efficiency. Plateau honed cylinder walls and plasm molly rings help engine run cooler, reducing oil consumption. Because heat is the primary cause of engine wear, the OHVI has a significantly longer life than competitive engines.			
	•"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.			
	•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.			
	•Skewed stator	Produces a smooth output waveform for compatibility with electronic equipment.			
	•Displaced phase excitation	Maximizes motor starting capability. Provides more surge capability than brushless generator designs			
	 Automatic voltage regulation 	Regulates the output voltage to $\pm 2\%$ prevents damaging voltage spikes.			
TRANSFER SWITCH	•UL 2200 Listed	For your safety			
	•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.			
	•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.			
	•Utility interrupt delay	Prevents nuisance start-ups of the engine, adjustable 10-30 seconds.			
SIOS	•Engine warm-up	Ensures engine is ready to assume the load, setpoint approximately 10 seconds.			
CONTF	•Engine cool-down	Allows engine to cool prior to shutdown, setpoint approximately 1 minute.			
ы С	•Seven day exerciser	Operates engine to prevent oil seal drying and damage between power outages.			
	•Timed Trickle Battery charger	Maintains battery amperage to insure starting.			
	•Main Line Circuit Breaker	Protects generator from overload.			
F	•Aluminum weather protective enclosure	Provides the ultimate 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.			
z	•Pre-wired External Connection Box	Easy Installation - Virtually all hardware included, plus step-by-step photographed Installation Guide.			
INSTALLATION SYSTEM	•1' Flexible Fuel Line Connector				
	•Composite Mounting Pad				
ISTA SY	Pre-wired conduits				
	 UL Listed wire nuts 				



GENERATOR	Model 05506 (20 kW)			
Rated Maximum Continuous Power Capacity (LP)	20.000 Watts*			
Rated Maximum Continuous Power Capacity (NG)	18.000 Watts*			
Rated Voltage	120/240			
Rated Maximum Continuous Load Current				
120 Volts	166.6 LP/150 NG			
240 Volts	83.3 LP/75 NG			
Total Harmonic Distortion	Less than 5%			
Main Line Circuit Breaker	100 Amp			
Phase	1			
Number of Rotor Poles	2			
Rated AC Frequency	60Hz			
Power Factor	1			
Battery Requirement (not included)	Group 26 12 Volts and			
	525 Cold-cranking			
	Amperes Minimum			
Unit Weight	451 Pounds			
Dimensions (L" x W" x H")	48 x 25 x 29			
Sound output in dB(A) at 23 ft. with generator operating at normal load	66			
Sound output in dB(A) at 23 ft. with generator in Whisper-Test [™] low speed exercise mode	60			
ENGINE				
ENGINE	Model 05506 (20 kW)			
Type of Engine	GENERAC OHVI V-TWIN			
Number of Cylinders	2			
Rated Horsepower	36 @ 3,600 rpm			
Displacement	999cc			
Cylinder Block	Aluminum w/Cast Iron Sleeve			
Valve Arrangement	Overhead Valve			
Ignition System	Solid-state w/Magneto			
Governor System	Electronic			
Compression Ratio	9.5:1			
Starter	12 Vdc			
Oil Capacity Including Filter	Approx. 1.7 Qts.			
Operating RPM	3,600			
Fuel Consumption				
Natural Gas cu.ft./hr.				
1/2 Load	206			
Full Load	294			
Liquid Propane ft ³ /hr (gal/hr)				
1/2 Load	69 (1.89)			
Full Load	106 (2.90)			
Required fuel pressure to generator fuel inlet at all load ranges - 5 to 7 inches of water co	lumn 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.			
-Manual/Test (start)	Start with starter control, unit stays on. If utility fails, transfer to load takes place			
Engine Start Sequence	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-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			

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 05506 (20 kW)
No. of Poles	2
Current Rating (amps)	200
Voltage Rating (VAC)	250
Utility Voltage Monitor (fixed)	
-Pick-up	75%
-Dropout	65%
Return to Utility	approx. 13 sec.
Exerciser weekly for 12 minutes	Standard
UL Listed	Standard
Dimensions (H" x W" x D")	42 x 20 x 7.25
Total of Pre-wired Circuits in Priority Load Center	16
No. 15A 120V	5
No. 20A 120V	5
No. 20A 240V	1
No. 40A 240V	1
No. 50A 240V	1
Circuit Breaker Protected	
Available RMS Symmetrical	
Fault Current @ 250 Volts	22,000



Mechanical Dimensions (in inches)										
Current	No. of	Height		Width		Depth				
Rating	Poles	H1	H2	W1	W2					
200 UL Listed	2	39.3	42.5	17.9	20.0	7.25				
Terminal Wire Ranges										
ATS Rated Amps CB		erminal Neu		al Lug Ass	y Gr	Ground Assy				
200A 2-Pole UL	2 x 300 MCM - #1		4 x 35	4 x 350 MCM - #6		5 x #4 - #14				
Mounting Holes 4 x .25 Diameter										



Transfer Switch Features

- Service Entrance Rated
- Load Shedding Capability

• Electrically operated, mechanically-held contacts for fast, positive connections.

• Rated for all classes of load, 100% equipment rated, both inductive and resistive.

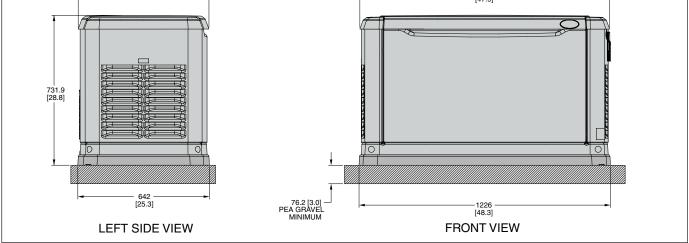
- 2 pole, 250 VAC contactors.
- 160 millisecond transfer time.
- Dual coil design.

• Main contacts are silver plated or silver alloy to resist welding and sticking.

• NEMA 3R (Outdoor rated) enclosure is standard on the 200 amp switch.

637.6 [25.1]

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.



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