

Home Standby - 7kW - 10kW - 13kW

Air-Cooled Gas Engine Generator Sets

Continuous Standby Power Rating

INCLUDES:

- **Automatic Transfer Switch With Built-In Emergency Load Center**
- **Electronic Governor (10kW and 13kW)**
- **Pre-wired External Connection Box**
- **Flexible Fuel Line**
- **Composite Mounting Pad**
- **Pre-wired conduits**
- **Natural Gas or LP Gas Operation**
- **UL 2200 Listed**



Model 05240 - 7kW 60Hz

Model 05241 - 10kW 60Hz

Model 05242 - 13kW 60Hz



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.
- ☐ **TEST CRITERIA:**
 - ✓ **PROTOTYPE TESTED**
 - ✓ **SYSTEM TORSIONAL TESTED**
 - ✓ **NEMA MG1-22 EVALUATION**
 - ✓ **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.



ENGINE	<ul style="list-style-type: none"> •Generac (OHVI) Design •"Spiny-lok" cast iron cylinder walls •Electronic ignition, spark advance and compression release •Full pressure lubrication system •Low oil pressure shutdown system •High temperature shutdown 	<p>Maximizes engine "breathing" for increased fuel efficiency. Cylinder walls run cooler, reducing oil consumption. Because heat is the primary cause of engine wear, the OHVI has a significantly longer life than competitive engines.</p> <p>Rigid construction and added durability provide long engine life.</p> <p>These features combine to assure smooth, quick starting every time.</p> <p>Superior lubrication to all vital bearings means better performance, less maintenance and significantly longer engine life.</p> <p>Superior shutdown protection prevents catastrophic engine damage due to low oil.</p> <p>Prevents damage due to overheating.</p>
GENERATOR	<ul style="list-style-type: none"> •Revolving field •Skewed stator •Displaced phase excitation •Automatic voltage regulation •UL 2200 Listed 	<p>Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.</p> <p>Produces a smooth output waveform for compatibility with electronic equipment.</p> <p>Maximizes motor starting capability. Provides more surge capability than brushless generator designs.</p> <p>Regulates the output voltage to $\pm 2\%$ prevents damaging voltage spikes.</p> <p>For your safety</p>
TRANSFER SWITCH	<ul style="list-style-type: none"> •Fully Automatic •Remote Mounting •UL Listed 	<p>Transfers your vital electrical loads to the energized source of power.</p> <p>Mounts near your existing distribution panel for simple, low cost installation.</p> <p>For your safety</p>
MICROPROCESSOR CONTROL	<ul style="list-style-type: none"> •Manual/Auto/Off switch •Utility voltage sensing •Utility interrupt delay •Engine warm-up •Engine cool-down •Seven day exerciser •Timed Trickle Battery charger •Main Line Circuit Breaker 	<p>Selects the operating mode.</p> <p>Constantly monitors utility voltage, setpoints 60% dropout, 70% pick-up, of standard voltage.</p> <p>Prevents nuisance start-ups of the engine, set point approximately 10 seconds.</p> <p>Ensures engine is ready to assume the load, setpoint approximately 10 seconds.</p> <p>Allows engine to cool prior to shutdown, setpoint approximately 1 minute.</p> <p>Operates engine to prevent oil seal drying and damage between power outages.</p> <p>Maintains battery amperage to insure starting.</p> <p>Protects generator from overload.</p>
UNIT	<ul style="list-style-type: none"> •Weather protective enclosure •Enclosed critical grade muffler •Small, compact, attractive 	<p>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.</p> <p>Quiet, critical grade muffler is mounted inside the unit to prevent injuries.</p> <p>Makes for an easy, eye appealing installation.</p>
INSTALLATION SYSTEM	<ul style="list-style-type: none"> •Pre-wired External Connection Box •1' Flexible Fuel Line •Composite Mounting Pad •Pre-wired conduits •UL Listed wire nuts 	<p>Easy Installation - Virtually all hardware included, plus step-by-step photographed Installation Guide.</p>

GENERATOR	Model 05240 (7kW)	Model 05241 (10kW)	Model 05242 (13kW)
Rated Maximum Continuous Power Capacity (LP).....	7,000 Watts*	10,000 Watts*	13,000 Watts*
Rated Maximum Continuous Power Capacity (NG).....	6,000 Watts*	9,000 Watts*	13,000 Watts*
Rated Voltage.....	120/240	120/240	120/240
Rated Maximum Continuous Load Current			
120 Volts	58.3 LP/50.0 NG	83.3 LP/75.0 NG	108.3 LP/108.3 NG
240 Volts	29.2 LP/25.0 NG	41.7 LP/37.5 NG	54.1 LP/54.1 NG
Main Line Circuit Breaker	30 Amp	45 Amp	55 Amp
Phase	1	1	1
Number of Rotor Poles	2	2	2
Rated AC Frequency	60Hz	60Hz	60Hz
Power Factor	11	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	426 Pounds
Dimensions (L" x W" x H").....	48 x 24 x 28-1/4	48 x 24 x 28-1/4	48 x 24 x 28-1/4
Sound output in dB(A) at 23 ft. with generator operating at full load.....	68	70.5	71.5
ENGINE	Model 05240 (7kW)	Model 05241 (10kW)	Model 05242 (13kW)
Type of Engine.....	GENERAC OHVI	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Number of Cylinders.....	1	2	2
Rated Horsepower.....	14.5 @ 3,600 rpm	18 @ 3,600 rpm	30 @ 3,600 rpm
Displacement.....	410cc	530cc	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.....	8.6:1	9.5:1	9.5:1
Starter.....	12 Vdc	12 Vdc	12Vdc
Oil Capacity Including Filter.....	Approx. 1.5 Qts	Approx. 1.7 Qts.	Approx. 1.7 Qts.
Operating RPM.....	3,600	3,600	3,600
Fuel Consumption			
Natural Gascu.ft./hr.			
.....1/2 Load	66	102	156
.....Full Load	119	156	220
Liquid Propane.....ft ³ /hr (gal/hr)			
.....1/2 Load	30 (0.82)	46 (1.25)	57 (1.55)
.....Full Load	54 (1.47)	70 (1.93)	80 (2.18)
Required fuel pressure to generator fuel inlet at all load ranges - 5 to 7 inches of water column for natural gas, 10 to 12 inches of water column for LP gas			
CONTROLS			
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	

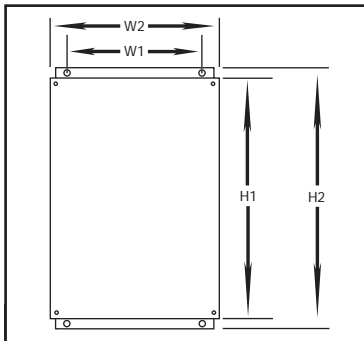
Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). * Maximum wattage and current are subject to and limited by such factors 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 & EMERGENCY LOAD CENTER

	Model 05240 (7kW)	Model 05241 (10kW)	Model 05242 (13kW)
No. of Poles	2	2	2
Current Rating (amps)	100	100	100
Voltage Rating (VAC)	250	250	250
Utility Voltage Monitor (fixed)			
-Pick-up	70%	70%	70%
-Dropout	60%	60%	60%
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	12
No. 15A 120V	5	3	5
No. 20A 120V	1	3	3
No. 20A 240V	-	1	-
No. 30A 240V	1	1	1
No. 40A 240V	-	-	1
Circuit Breaker Protected			
Available RMS Symmetrical			
Fault Current @ 250 Volts	10,000	10,000	10,000

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.



Mechanical Dimensions (in inches)

Current Rating	No. of Poles	Height		Width		Depth
		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

