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.



HOME STANDBY SPECIFICATIONS

	•Generac (OHVI) Design	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
ENGINE		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.
	•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.
TOR	•Skewed stator	Produces a smooth output waveform for compatibility with electronic equipment.
GENERATOR	•Displaced phase excitation	Maximizes motor starting capability. Provides more surge capability than brushless generator designs.
	•Automatic voltage regulation	Regulates the output voltage to ±2% prevents damaging voltage spikes.
	•UL 2200 Listed	For your safety
H H	•Fully Automatic	Transfers your vital electrical loads to the energized source of power.
TRANSFER	•Remote Mounting	Mounts near your existing distribution panel for simple, low cost installation.
TR/S	•UL Listed	For your safety
_	•Manual/Auto/Off switch	Selects the operating mode.
TRO	•Utility voltage sensing	Constantly monitors utility voltage, setpoints 60% dropout, 70% pick-up, of standard voltage.
CON	•Utility interrupt delay	Prevents nuisance start-ups of the engine, set point approximately 10 seconds.
SOR	•Engine warm-up	Ensures engine is ready to assume the load, setpoint approximately 10 seconds.
CES	•Engine cool-down	Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
PRO	•Seven day exerciser	Operates engine to prevent oil seal drying and damage between power outages.
MICROPROCESSOR CONTROL	•Timed Trickle Battery charger	Maintains battery amperage to insure starting.
Ē	•Main Line Circuit Breaker	Protects generator from overload.
╘	•Weather protective enclosure	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.
N	•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	
	Composite Mounting Pad Pre-wired conduits	
INST	•UL Listed wire nuts	

Home Standby - 7kW - 10kW - 13kW



Rated Maximum Continuous Power Capacity (I-P). 7,000 Wates* 10,000 Wates* 13,000 Wates* 13,000 Wates* 13,000 Wates* 120,240 120,24				
Ralad Mariam Continuous Poer Cipacity (NG). 6.000 Wate's 120/240 120/2	GENERATOR	Model 05240 (7kW)	Model 05241 (10kW)	Model 05242 (13kW)
Ralad Mariam Continuous Poer Cipacity (NG). 6.000 Wate's 120/240 120/2	Bated Maximum Continuous Power Capacity (LP)	7.000 Watts*	10.000 Watts*	13.000 Watts*
Rated Voltage			•	-,
Rated Maximum Continuous Load Current 120 Volts 58.3 LP50.0 NG			*	
120 Volls	· · · · · · · · · · · · · · · · · · ·	120/240	120/240	120/240
240 Volls		58 3 LP/50 0 NG	83 3 LP/75 0 NG	108 3 LP/108 3 NG
Main Line Circuit Breaker				
Phase				
Number of Rotor Poles			•	•
Ralest AC Prequency				
Power Factor 11				
Battery Requirement (not included) Group 26 12 Volts and 350 Cold-cranking				60HZ
12 Volts and 12 Volts and 12 Volts and 12 Volts and 385 Cold-cranking Amperes Minimum Ada Pounds 375 Pounds 426 Pounds 426 Pounds 375 Pounds 426 Pounds 426 Pounds 426 Pounds 427 Volts and 428 Pounds 428 Po			·	
350 Cold-cranking 355 Cold-cranking Amperes Minimum Ampere	Battery Requirement (not included)	·		•
Marpares Minimum Ampares Minimum Ampares Minimum Authoris				
Unit Weight		· ·	•	
Dimensions (L' x W' x H')		•	•	•
Sound output in dB(A) at 23 ft. with generator operating at full load. 68 70.5 71.5	Unit Weight	336 Pounds	375 Pounds	426 Pounds
Page	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
Type of Engine	Sound output in dB(A) at 23 ft. with generator operating at full I	oad 68	70.5	71.5
Type of Engine	ENGINE	Model 05240 (7kW)	Model 05241 (10kW)	Model 05242 (13kW)
Number of Cylinders.				
Rated Horsepower	<i>'</i> ''			
Displacement			_	
Cylinder Block. Aluminum wCast Iron Sleeve Overhead Valve Overhead V				
Iron Sleeve	Displacement	410cc		
Valve Arrangement. Overhead Valve Overhead Valve Overhead Valve Ignition System. Solid-state wMagneto Solid-state wMagneto Solid-state wMagneto Covernor 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 Filter. Approx. 1.5 Qts Approx. 1.7 Qts. Approx. 1.7 Qts. Operating RPM. 3,600 3,600 3,600 3,600 Fuel Consumption Natural Cas	Cylinder Block	Aluminum w/Cast	Aluminum w/Cast	Aluminum w/Cast
Sprilion System		Iron Sleeve	Iron Sleeve	Iron Sleeve
Governor System. Mechanical Compression Ratio. Electronic Compression Ratio. 8.6:1 9.5:1 9.5:1 Starter. 12 Vide 12 Vid	Valve Arrangement	Overhead Valve	Overhead Valve	Overhead Valve
Compression Ratio. 8.6:1 9.5:1 9.5:1 Starter. 12 Vdc 12 Vdc 12 Vdc Oil Capacity Including Filter. Approx. 1.5 Olts Approx. 1.7 Olts. Approx. 1.7 Olts. Operating RPM 3,600 3,600 3,600 Fuel Consumption Natural Gas	Ignition System	Solid-state w/Magneto	Solid-state w/Magneto	Solid-state w/Magneto
Starter. 12 Voic 12	Governor System	Mechanical	Electronic	Electronic
Starter. 12 Voic 12	Compression Ratio.	8.6:1	9.5:1	9.5:1
Oil Capacity Including Filter				
Operating RPM				
Fuel Consumption Natural Gas	' '		• • •	• • • • • • • • • • • • • • • • • • • •
Natural Gas			0,000	0,000
1/2 Load	l '			
Full Load 119 156 220		66	100	156
Liquid Propane				
1/2 Load 30 (0.82) 46 (1.25) 57 (1.55)		119	100	220
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	, ,	00 (0.00)	40 (4 05)	57 (4 55)
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		,	` ,	, ,
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 Oversreed Shutdown Standard Overcrank Protection Standard			` /	
Mode Switch Automatic Start on Utility failure -Auto 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) 10 seconds 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 Voltage Regulator w/Overvoltage Protection Standard Overspeed Shutdown Standard Overspeed Shutdown Standard Overcrank Protection Standard Overcrank Protection Standard		- 5 to 7 inches of water column f	or natural gas, 10 to 12 inches of water col	umn for LP gas
-Auto				
7 day exerciser 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 Overspeed Shutdown Standard Overcrank Protection Standard Overcrank Protection Standard			Automatic Start on Utility failure	
-Off				
-Manual/Test (start) -Manual/Test (with starter control, unit stays on. If utility fails, transfer to load takes place. -Manual/Test (with starter control, unit stays on. If utility fails, transfer to load takes place. -Manual/Test (with starter control, unit stays on. If utility fails, transfer to load takes place. -Manual/Test (with starter control, unit stays on. If utility fails, transfer to load takes place. -Manual/Test (with starter control, unit stays on. If utility fails, transfer to load takes place. -Manual/Test (with starter control, unit stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. If utility fails, transfer to load takes place. -Manual/Test (with stays on. I fail the stays	-Off		•	
-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 Overspeed Shutdown Standard Overcrank Protection Standard Overcrank Protection Standard			•	
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Engine Start Sequence Cyclic cranking: 7 sec. on, 7 rest (90 sec. maximum duration) Engine Warm-up				
(90 sec. maximum duration) Engine Warm-up	Engine Start Seguence			
Engine Warm-up	Linguie Start Sequence		,	
Engine Cool-Down	Engine Move up			
Starter Lock-out				
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 Overspeed Shutdown Standard Overspeed Shutdown Standard Overcrank Protection Standard	ŭ			
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	Starter Lock-out		0 0	
Automatic Voltage Regulator w/Overvoltage Protection Standard Automatic Low Oil Pressure Shutdown Standard Overspeed Shutdown Standard, 72Hz High Temperature Shutdown Standard Overcrank Protection Standard	l		0 11	
Automatic Low Oil Pressure Shutdown				
Overspeed Shutdown				
High Temperature Shutdown	Automatic Low Oil Pressure Shutdown		Standard	
Overcrank Protection	Overspeed Shutdown		Standard, 72Hz	
Overcrank Protection	High Temperature Shutdown		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).

W2

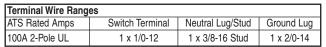


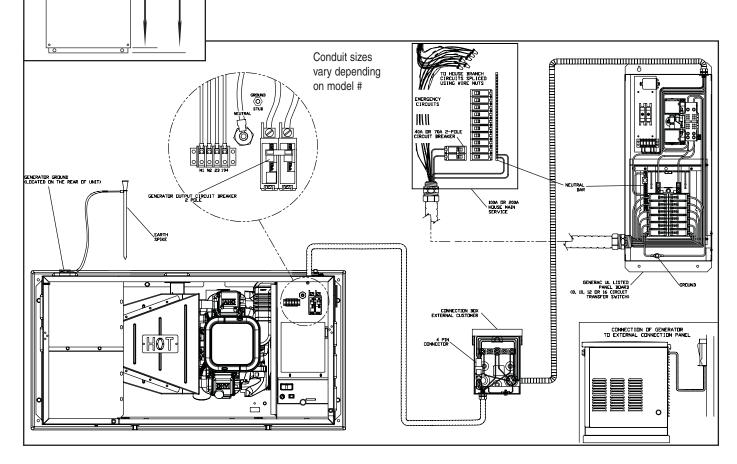
TRANSFER SWITCH &			
EMERGENCY LOAD CENTER	Model 05240 (7kW)	Model 05241 (10kW)	Model 05242 (13kW)
No. of Poles	2	2	2
Current Rating (amps)	100	100	100
Voltage Rating (VAC)	250	250	250
Utility Voltage Monitor (fixed)			
-Pick-up	70%	70%	70%
	60%		
Return to Utility	approx. 13 sec	approx. 13 sec	approx. 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 enclosure is standard on the 100 amp switch.

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





GENERAC POWER SYSTEMS, INC. • P.O. BOX 297 • WHITEWATER, WI 53190