



# STANDBY GENERATORS

## 8 kW - 10 kW - 14 kW

### Air-Cooled Gas Engine Generator Sets

#### INCLUDES:

- True Power® Electrical Technology
- Two Line LCD Digital Controller (10 kW & 14 kW)
- Electronic Governor (10 kW & 14 kW)
- External Main Circuit Breaker & System Status LED (10 kW & 14 kW)
- Flexible Fuel Line Connector
- Composite Mounting Pad
- Natural Gas or LP Gas Operation
- UL 2200 Listed

#### Continuous Standby Power Rating

- Model 005518-1 (Steel - Bisque) - 8 kW 60Hz
- Model 005520-1 (Steel - Bisque) - 10 kW 60Hz
- Model 005522-1 (Steel - Bisque) - 14 kW 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.
- **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.
- **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.



# FEATURES

## Standby Generator - 8 kW - 10 kW - 14 kW

ENGINE	<ul style="list-style-type: none"> <li>•Generac (OHVI) Design</li> </ul>	Maximizes engine “breathing” for increased fuel efficiency. Plateau honed cylinder walls and plasma moly 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.
	<ul style="list-style-type: none"> <li>•“Spiny-lok” cast iron cylinder walls</li> </ul>	Rigid construction and added durability provide long engine life.
	<ul style="list-style-type: none"> <li>•Electronic ignition/spark advance</li> </ul>	These features combine to assure smooth, quick starting every time.
	<ul style="list-style-type: none"> <li>•Full pressure lubrication system</li> </ul>	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.
	<ul style="list-style-type: none"> <li>•Low oil pressure shutdown system</li> </ul>	Superior shutdown protection prevents catastrophic engine damage due to low oil.
GENERATOR	<ul style="list-style-type: none"> <li>•High temperature shutdown</li> </ul>	Prevents damage due to overheating.
	<ul style="list-style-type: none"> <li>•Revolving field</li> </ul>	Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
	<ul style="list-style-type: none"> <li>•Skewed rotor (8 &amp; 10 kW)</li> <li>•Skewed stator (14 kW)</li> </ul>	Produces a smooth output waveform for compatibility with electronic equipment.
	<ul style="list-style-type: none"> <li>•Displaced phase excitation</li> </ul>	Maximizes motor starting capability.
	<ul style="list-style-type: none"> <li>•Automatic voltage regulation</li> </ul>	Regulates the output voltage to $\pm 2\%$ prevents damaging voltage spikes.
TRANSFER SWITCH	<ul style="list-style-type: none"> <li>•UL 2200 Listed</li> </ul>	For your safety
	Sold separately	
CONTROLS	<ul style="list-style-type: none"> <li>•Manual/Auto/Off switch</li> </ul>	Selects the operating mode.
	<ul style="list-style-type: none"> <li>•Utility voltage sensing</li> </ul>	Constantly monitors utility voltage, setpoints 65% dropout, 75% pick-up, of standard voltage.
	<ul style="list-style-type: none"> <li>•Utility interrupt delay</li> </ul>	Prevents nuisance start-ups of the engine, setpoint approximately 10 seconds.
	<ul style="list-style-type: none"> <li>•Engine warm-up</li> </ul>	Ensures engine is ready to assume the load, setpoint approximately 10 seconds.
	<ul style="list-style-type: none"> <li>•Engine cool-down</li> </ul>	Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
	<ul style="list-style-type: none"> <li>•Seven day exerciser</li> </ul>	Operates engine to prevent oil seal drying and damage between power outages.
	<ul style="list-style-type: none"> <li>•Timed Trickle Battery charger</li> </ul>	Maintains battery charge level to insure starting.
	<ul style="list-style-type: none"> <li>•Main Line Circuit Breaker</li> </ul>	Protects generator from overload.
UNIT	<ul style="list-style-type: none"> <li>•Electronic governor (10 &amp; 14 kW)</li> </ul>	Maintains constant 60 Hz frequency.
	<ul style="list-style-type: none"> <li>•Weather protective enclosure</li> </ul>	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.
	<ul style="list-style-type: none"> <li>•Enclosed critical grade muffler</li> </ul>	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
	<ul style="list-style-type: none"> <li>•Small, compact, attractive</li> </ul>	Makes for an easy, eye appealing installation.
INSTALLATION SYSTEM	<ul style="list-style-type: none"> <li>•1' Flexible Fuel Line Connector</li> </ul>	Easy Installation
	<ul style="list-style-type: none"> <li>•Composite Mounting Pad</li> </ul>	

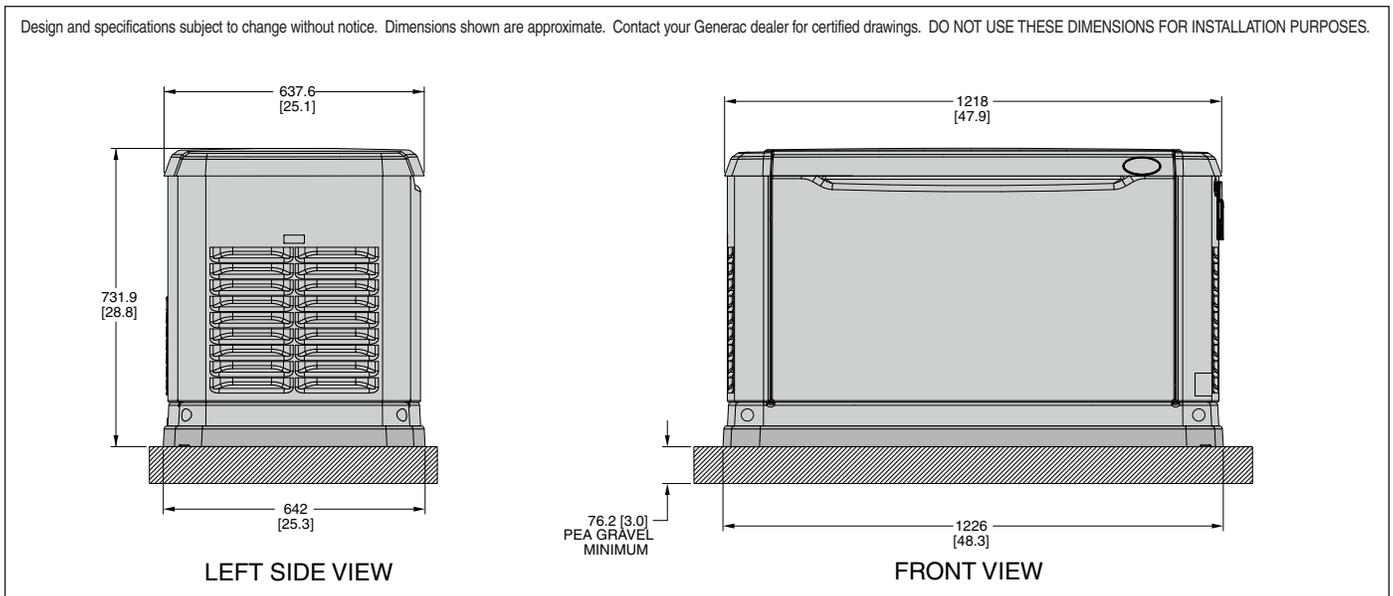
# SPECIFICATIONS

**GENERAC®**

GENERATOR	Model 05518 (8 kW)	Model 05520 (10 kW)	Model 05522 (14 kW)
Rated Maximum Continuous Power Capacity (LP)	8,000 Watts*	10,000 Watts*	14,000 Watts*
Rated Maximum Continuous Power Capacity (NG)	7,000 Watts*	9,000 Watts*	13,000 Watts*
Rated Voltage	120/240	120/240	120/240
Rated Maximum Continuous Load Current 240 Volts	33.3 LP/29.2 NG	41.6 LP/37.5 NG	58.3 LP/54.2 NG
Total Harmonic Distortion	Less than 5%	Less than 5%	Less than 5%
Main Line Circuit Breaker	35 Amp	45 Amp	60 Amp
Phase	1	1	1
Number of Rotor Poles	2	2	2
Rated AC Frequency	60Hz	60Hz	60Hz
Power Factor	1	1	1
Battery Requirement (not included)	Group 26R 12 Volts and 350 Cold-cranking Amperes Minimum	Group 26R 12 Volts and 525 Cold-cranking Amperes Minimum	Group 26R 12 Volts and 525 Cold-cranking Amperes Minimum
Unit Weight	340 Pounds	387 Pounds	439 Pounds
Dimensions (L" x W" x H")	48 x 25 x 29	48 x 25 x 29	48 x 25 x 29
Sound output in dB(A) at 23 ft. with generator operating at normal load	62	63	66
ENGINE	Model 05518 (8 kW)	Model 05520 (10 kW)	Model 05522 (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 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	9.4:1	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. 1.9 Qts.
Operating RPM	3,600	3,600	3,600
Fuel Consumption			
Natural Gas	cu.ft./hr.		
	1/2 Load		
	Full Load	77	102
Liquid Propane	ft <sup>3</sup> /hr (gal/hr)		
	1/2 Load	139	156
	Full Load	34 (0.94)	46 (1.25)
		62 (1.68)	70 (1.93)
			58 (1.56)
			84 (2.30)
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			
2-Line Plain Text LCD Display (10 & 14 kW)	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: 16 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).

# Standby Generator - 8 kW - 10 kW - 14 kW



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