

# GENERAC® GUARDIAN® SERIES STANDBY GENERATORS 8 kW - 10 kW - 14 kW

# Air-Cooled Gas Engine Generator Sets

### **INCLUDES:**

- True Power® Electrical Technology
- Two Line LCD Tri-lingual Digital Nexus<sup>™</sup> Controller
- Electronic Governor
- External Main Circuit Breaker, System Status & Maintenance Interval LED Indicators
- Sound Attenuated Enclosure
- Flexible Fuel Line Connector
- Composite Mounting Pad
- Natural Gas or LP Gas Operation
- 3 Year Limited Warranty
- 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<sup>®</sup> 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.

#### O TEST CRITERIA:

- PROTOTYPE TESTED
- SYSTEM TORSIONAL TESTED

NEMA MG1-22 EVALUATION
 MOTOR STARTING ABILITY

Standby Power Rating

Model 005882-1 (Steel - Bisque) - 8 kW 60Hz Model 005883-1 (Steel - Bisque) - 10 kW 60Hz Model 005884-1 (Steel - Bisque) - 14 kW 60Hz



- 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. An unequalled ±1% voltage regulation.
- SINGLE SOURCE SERVICE RESPONSE from Generac's extensive 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** 

ENGINE	•Generac (OHVI) Design	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.
	• "Spiny-lok" cast iron cylinder walls	Rigid construction and added durability provide long engine life.
	•Electronic ignition/spark advance	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.
	<ul> <li>Low oil pressure shutdown system</li> </ul>	Superior shutdown protection prevents catastrophic engine damage due to low oil.
	<ul> <li>High temperature shutdown</li> </ul>	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	<ul> <li>Displaced phase excitation</li> </ul>	Maximizes motor starting capability.
	Automatic voltage regulation	Regulates the output voltage to $\pm 1\%$ prevents damaging voltage spikes.
	•UL 2200 Listed	For your safety.
TRANSFER Switch	Sold separately	
M CONTROLS	Manual/Auto/Off switch	Selects the operating mode.
	• Utility voltage sensing	Constantly monitors utility voltage, setpoints 60% dropout, 80% pick-up, of standard voltage.
	Generator voltage sensing	Constantly monitors generator voltage to ensure the cleanest power delivered to the home.
	• Utility interrupt delay	Prevents nuisance start-ups of the engine, adjustable 10-30 seconds.
	•Engine warm-up	Ensures engine is ready to assume the load, setpoint approximately 5 seconds.
ບ ຊ	•Engine cool-down	Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
NEXUS™	Programmable seven day exerciser	Operates engine to prevent oil seal drying and damage between power outages by running the generator for 12 minutes every week.
Z	Smart battery charger	Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature.
	Main Line Circuit Breaker	Protects generator from overload.
	•Electronic governor	Maintains constant 60 Hz frequency.
Ę	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.
	•Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
5	•Small, compact, attractive	Makes for an easy, eye appealing installation.
	•SAE	Sound attenuated enclosure ensures quiet operation.
INSTALLATION System	<ul> <li>1' Flexible Fuel Line Connector</li> <li>Composite Mounting Pad</li> </ul>	Easy Installation.

### **SPECIFICATIONS**

### GENERAC

GENERATOR	Model 005882-1 (8 kW)	Model 005883-1 (10 kW)	Model 005884-1 (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	240	240	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 525	Group 26R 12 Volts and 525	Group 26R 12 Volts and 525
		Cold-cranking Amperes Minimum	
Unit Weight (Pounds/Kilos)	340/154.2	387/175.4	439/199.1
Dimensions (L x W x H) Inches/mm	040/104.2	48 x 25 x 29 (1218 x 638 x 732)	400/100.1
Sound output in dB(A) at 23 ft. with generator operating at normal load	62	63	66
ENGINE	Model 005882-1 (8 kW)	Model 005883-1 (10 kW)	Model 005884-1 (14 kW)
Type of Engine	GENERAC OHVI	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Number of Cylinders	1	2	2
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	Electronic	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./1.4L	Approx. 1.7 Qts./1.6L	Approx. 1.9 Qts./1.8L
Operating RPM	3.600	3.600	3.600
Fuel Consumption	0,000	0,000	0,000
Natural Gas cu.ft./hr.			
1/2 Load			
Full Load	77	102	156
Liquid Propane ft <sup>3</sup> /hr (gal/hr) [Liter/hr]	139	156	220
1/2 Load	34 (0.94) [3.56]	46 (1.25) [4.73]	58 (1.56) [5.91]
Full Load	62 (1.68) [6.36]	70 (1.93) [7.31]	84 (2.30) [8.71]
Required fuel pressure to generator fuel inlet at all load ranges - 5 to 7 inc For Btu content, multiply ft <sup>3</sup> /hr x 2520 (LP) or ft <sup>3</sup> /hr x 1000 (NG)	ches of water column for natural gas,	, TO to T2 Inches of water column to	or LP gas
CONTROLS	Circ		1
2-Line Plain Text LCD Display (10 & 14 kW)	Sim	ple user interface for ease of operation	tion.
Mode Switch			
-Auto		atic Start on Utility failure. 7 day ex	
-Off		wer is removed. Control and charge	
-Manual/Test (start)	Start with starter control	ol, unit stays on. If utility fails, trans	ter to load takes place.
Programmable start delay between 10-30 seconds	<b>A</b> 11	Standard	
Engine Start Sequence	Cyclic crankin	g: 16 sec. on, 7 rest (90 sec. maxir	num duration).
Engine Warm-up		5 seconds	
Engine Cool-Down		1 minute	
Starter Lock-out	Starter canno	t re-engage until 5 sec. after engine	has stopped.
Smart Battery Charger		Standard	
Automatic Voltage Regulation with Over and Under Voltage Protection		Standard	
Automatic Low Oil Pressure Shutdown		Standard	
Overspeed Shutdown		Standard, 72Hz	
High Temperature Shutdown		Standard	
Overcrank Protection		Standard	
Safety Fused		Standard	
Failure to Transfer Protection		Standard	
Low Battery Protection		Standard	
50 Event Run Log		Standard	
Future Set Capable Exerciser		Standard	
Incorrect Wiring Protection		Standard	
Internal Fault Protection		Standard	
Common External Fault Capability		Standard	
Sommon External Fault Suparinty		Otanuaru	

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, IS03046 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).

### **AVAILABLE ACCESSORIES**

Model #	Product	Discription
5819	26R Wet Cell Battery	Every standby generator requires a battery to start the system. Generac offers the recommended 26R wet cell battery for use with all air-cooled standby product.
5948 - 8 & 10kW 5947 - 14kW	Cold Weather Kit	If the temperature regularly falls below $32^\circ$ F, install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
5621	Auxiliary Transfer Switch Contact Kit	The auxiliary transfer switch contact kit allows the transfer switch to lock out a single large electrical load you may not need.
5703	Paint Kit	Bisque Kit
5662 - 8kW 5663 - 10kW 5664 - 14kW	Scheduled Maintenance Kit	Generac's scheduled maintenance kits provide all the hardware necessary to perform complete routine maintenance on a Generac automatic standby generator.
5928	Nexus Wireless Remote	Completely wireless and battery powered, Generac's Nexus wireless remote monitor provides you with instant status information without ever leaving the house.
5951	Advanced Nexus Wireless Remote	Remotely control generator functions with the advanced model's LCD display. In addition to remote testing of the generator, set the excercise cycle and maintenance interval reminders.
5937	DLM Load Control DLM Module (50 Amps)	DLM Modules are used in conjunction with the Nexus Smart Switch to increase its load management capabilities. It gives the Nexus Smart Switch additional load management flexibility not found in any other transfer switch.

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.



LEFT SIDE VIEW





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