



CENTURION® STANDBY GENERATOR

16 kW

Air-Cooled Gas Engine Generator Sets

INCLUDES:

- True Power® Electrical Technology
- Two Line LCD Tri-lingual Digital Nexus™ Controller
- 16 Circuit EZ Switch™ with Built-In Priority Load Center
- Electronic Governor
- Pre-wired External Connection Box
- External Main Circuit Breaker, System Status & Maintenance Interval LED Indicators and GFCI Duplex Outlet
- Flexible Fuel Line Connector
- Composite Mounting Pad
- Pre-wired conduits
- Natural Gas or LP Gas Operation
- 3 Year Limited Warranty
- UL 2200 Listed

Standby Power Rating
 Model 005894-0 (Steel - Gray) - 16 kW 60Hz
 Model 005895-0 (Aluminum - Gray) - 16 kW 60Hz



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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. 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.



CENTURION
 by Generac Power Systems, Inc.

SPECIFICATIONS

Centurion® Standby Generator - 16 kW

ENGINE	<ul style="list-style-type: none"> •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.
	<ul style="list-style-type: none"> •“Spiny-lok” cast iron cylinder walls 	Rigid construction and added durability provide long engine life.
	<ul style="list-style-type: none"> •Electronic ignition/spark advance 	These features combine to assure smooth, quick starting every time.
	<ul style="list-style-type: none"> •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 style="list-style-type: none"> •Low oil pressure shutdown system 	Superior shutdown protection prevents catastrophic engine damage due to low oil.
	<ul style="list-style-type: none"> •High temperature shutdown 	Prevents damage due to overheating.
GENERATOR	<ul style="list-style-type: none"> •Revolving field 	Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
	<ul style="list-style-type: none"> •Skewed stator 	Produces a smooth output waveform for compatibility with electronic equipment.
	<ul style="list-style-type: none"> •Displaced phase excitation 	Maximizes motor starting capability.
	<ul style="list-style-type: none"> •Automatic voltage regulation 	Regulates the output voltage to $\pm 1\%$ prevents damaging voltage spikes.
	<ul style="list-style-type: none"> •UL 2200 Listed 	For your safety
TRANSFER SWITCH	<ul style="list-style-type: none"> •Fully Automatic 	Transfers your vital electrical loads to the energized source of power.
	<ul style="list-style-type: none"> •Pre-wired, color coded conduits 	Ensures the easiest, trouble free installation.
	<ul style="list-style-type: none"> •Remote Mounting 	Mounts near your existing distribution panel for simple, low cost installation.
NEXUS™ CONTROLS	<ul style="list-style-type: none"> •UL Listed 	For your safety
	<ul style="list-style-type: none"> •Manual/Auto/Off switch 	Selects the operating mode.
	<ul style="list-style-type: none"> •Utility voltage sensing 	Constantly monitors utility voltage, setpoints 60% dropout, 80% pick-up, of standard voltage.
	<ul style="list-style-type: none"> •Generator voltage sensing 	Constantly monitors generator voltage to ensure the cleanest power delivered to the home.
	<ul style="list-style-type: none"> •Utility interrupt delay 	Prevents nuisance start-ups of the engine, adjustable 10-30 seconds.
	<ul style="list-style-type: none"> •Engine warm-up 	Ensures engine is ready to assume the load, setpoint approximately 5 seconds.
	<ul style="list-style-type: none"> •Engine cool-down 	Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
	<ul style="list-style-type: none"> •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.
	<ul style="list-style-type: none"> •Smart battery charger 	Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature.
	<ul style="list-style-type: none"> •Main Line Circuit Breaker 	Protects generator from overload.
UNIT	<ul style="list-style-type: none"> •Electronic governor 	Maintains constant 60 Hz frequency.
	<ul style="list-style-type: none"> •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. Model 005895-0 has an aluminum enclosure.
	<ul style="list-style-type: none"> •Enclosed critical grade muffler 	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
INSTALLATION SYSTEM	<ul style="list-style-type: none"> •Small, compact, attractive 	Makes for an easy, eye appealing installation.
	<ul style="list-style-type: none"> •Pre-wired External Connection Box 	Easy Installation - Virtually all hardware included, plus step-by-step photographed Installation Guide.
	<ul style="list-style-type: none"> •1' Flexible Fuel Line Connector 	
	<ul style="list-style-type: none"> •Composite Mounting Pad 	
	<ul style="list-style-type: none"> •Pre-wired conduits 	
<ul style="list-style-type: none"> •UL Listed wire nuts 		

SPECIFICATIONS



GENERATOR		Model 005894-0 (16 kW)	Model 005895-0 (16 kW)
Rated Maximum Continuous Power Capacity (LP)		16,000 Watts*	
Rated Maximum Continuous Power Capacity (NG)		16,000 Watts*	
Rated Voltage		240	
Rated Maximum Continuous Load Current – 240 Volts		66.6 LP/66.6 NG	
Total Harmonic Distortion		Less than 5%	
Main Line Circuit Breaker		65 Amp	
Phase		1	
Number of Rotor Poles		2	
Rated AC Frequency		60Hz	
Power Factor		1	
Battery Requirement (not included)		Group 26R 12 Volts and 525 Cold-cranking Amperes Minimum	
Unit Weight (Pounds/Kilos)		455/210.9	421/191
Dimensions (L x W x H) Inches/mm		48 x 25 x 29 (1218 x 638 x 732)	
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		Model 005894-0 (16 kW)	Model 005895-0 (16 kW)
Type of Engine		GENERAC OHVI V-TWIN	
Number of Cylinders		2	
Displacement		992cc	
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. 1.9 Qts./1.8L	
Operating RPM		3,600	
Fuel Consumption			
Natural Gas	cu.ft./hr.		
	1/2 Load		
	Full Load	183	
Liquid Propane	ft ³ /hr (gal/hr) [Liter/hr]		
	1/2 Load	58 (1.59) [6.09]	
	Full Load	91 (2.51) [9.73]	
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 For Btu content, multiply ft ³ /hr x 2520 (LP) or ft ³ /hr x 1000 (NG)			
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.	
Programmable start delay between 10-30 seconds		Standard	
Engine Start Sequence		Cyclic cranking: 16 sec. on, 7 rest (90 sec. maximum duration)	
Engine Warm-up		5 seconds	
Engine Cool-Down		1 minute	
Starter Lock-out		Starter cannot 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	

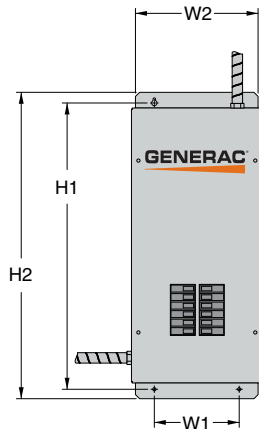
Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS514, ISO3046 and DIN6271). * Maximum wattage and current are subject to and limited by such factors 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.

Centurion® Standby Generator - 16 kW

EZ SWITCH™ & LOAD CENTER	Model 005894-0 (16 kW)	Model 005895-0 (16 kW)
No. of Poles		2
Current Rating (amps)		100
Voltage Rating (VAC)		250
Utility Voltage Monitor (fixed)		
-Pick-up		80%
-Dropout		60%
Return to Utility		approx. 15 sec.
Exerciser weekly for 12 minutes		Standard
UL Listed		Standard
Dimensions (H" x W" x D")	26.5 x 12.5 x 7 (658 x 308 x 172)	
Total of Pre-wired Circuits		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		10,000

EZ Switch™ Features

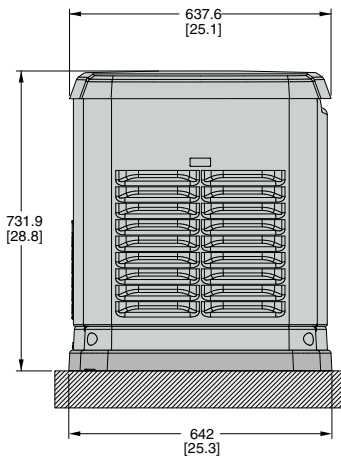
- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2 pole, 250 VAC contactors.
- 160 millisecond transfer time.
- Dual coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 1 (indoor rated) enclosure is standard on the 100 amp switch.
- Pre-wired 30 foot (9.1 meter) whip to connect to the pre-wired external connection box.
- Pre-wired 2 foot (0.61 meter) whip, color coded to connect into the existing electrical panel.



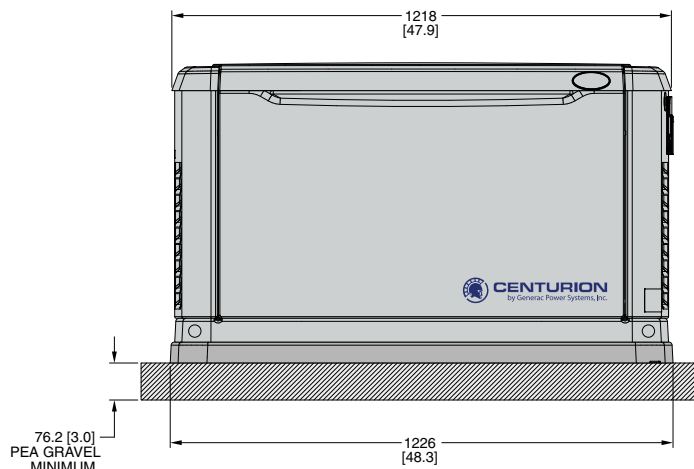
Mechanical Dimensions (in inches)						
Current Rating	No. of Poles	Height		Width		Depth
		H1	H2	W1	W2	
100 UL Listed	2	26.5 in	29.25 in	8.14 in	12.5 in	7
		673mm	743mm	207mm	317.5mm	178mm

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

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



FRONT VIEW



CENTURION
by Generac Power Systems, Inc.

Generac Power Systems, Inc. • S45 W29290 HWY. 59, Waukesha, WI 53189 • centuriogenerators.com

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