GENERAC® COREPOWER™ SYSTEM

7 kW

Air-Cooled Gas Engine Generator

Power Rating

Model 005837-0 (Composite Polymer - Bisque) - 7 kW 60Hz

INCLUDES:

- Digital LED Controller
- Automatic Transfer Switch with Built-In Priority Load Center
- Composite All Weather Enclosure
- External Main Circuit Breaker
- Flexible Fuel Line Connector
- Composite Mounting Pad
- Natural Gas or LP Gas Operation
- 2 Year Limited Warranty
- UL 2200 Listed

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GOOD HOUSEKEEPING Since 1909

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.

- **COREPOWER™:** Offers an extreme value for those who desire automatic backup power at the most affordable price.

- **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.

- **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.

GENERAC®

FEATURES

Generac® Standby Generator, CorePower™ System - 7 kW

ENGINE	•Generac OHV engine	A durable, reliable powertrain for maximum power output.
	•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.
	•Pressurized filtration system	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.
	•Spin-on automotive type oil filter	Captures and collects harmful impurities with easy serviceability.
GENERATOR	•Revolving field	Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
	•Displaced phase excitation	Maximizes motor starting capability.
	•Automatic voltage regulation	Regulates the output voltage to ±5% prevents damaging voltage spikes.
	•UL 2200 Listed	For your safety
TRANSFER SWITCH	•Fully Automatic	Transfers your vital electrical loads to the energized source of power.
	•Remote Mounting	Mounts near your existing distribution panel for simple, low cost installation.
	•Flush mountable	Can be installed in between studs like a standard electrical panel.
	•UL Listed	For your safety
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.
	•Utility interrupt delay	Prevents nuisance start-ups of the engine, setpoint approximately 10 seconds.
	•Engine warm-up	Ensures engine is ready to assume the load, setpoint approximately 5 seconds.
	•Engine cool-down	Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
	•Seven day exerciser	Operates engine to prevent oil seal drying and damage between power outages.
	•Timed Trickle Battery charger	Maintains battery charge level to ensure starting.
	•Main Line Circuit Breaker	Protects generator from overload.
UNIT	•Weather protective enclosure	Ensures protection against mother nature. Tooless removal of roof and sides. Three lift-out panels for easy access to all routine maintenance items. Composite polymer enclosure will not rust and is ideal for harsh and coastal installations.
	•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.
INSTALLATION SYSTEM	•1' Flexible Fuel Line Connector	Easy Installation

SPECIFICATIONS

GENERAC

GENERATOR	Model 005837-0
Rated Maximum Continuous Power Capacity (LP)	7,000 Watts*
Rated Maximum Continuous Power Capacity (NG)	6,000 Watts*
Rated Voltage	240
Rated Maximum Continuous Load Current – 240 Volts	29.1 / 25
Main Line Circuit Breaker	30 Amp
Phase	1
Number of Rotor Poles	2
Rated AC Frequency	60Hz
Power Factor	1
Battery Requirement (not included)	Group 26R 12 Volts and 350 Cold-cranking Amperes Minimum
Unit Weight (Pounds/Kilos)	250/113.4
Dimensions (L x W x H) inches [mm]	24.4 x 30.2 x 33 [618.5 x 767.5 x 837]
Sound output in dB(A) at 23 ft. with generator operating at normal load	67

ENGINE		Model 005837-0
Type of Engine		GENERAC OHV
Number of Cylinders		1
Displacement		432cc
Cylinder Block		Aluminum w/Cast Iron Sleeve
Valve Arrangement		Overhead Valve
Ignition System		Solid-state w/Magneto
Governor System		Mechanical
Starter		12 Vdc
Oil Capacity Including Filter		Approx. 1.5 Qts./1.4L
Operating RPM		3,600
Fuel Consumption		
Natural Gas	cu.ft./hr.	
	1/2 Load	83 (2.4)
	Full Load	146 (4.1)
Liquid Propane	ft^3/hr (gal/hr)	
	1/2 Load	37.1 (1.02)
	Full Load	47.6 (1.31)
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	
Digital LED Indicators	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	5 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

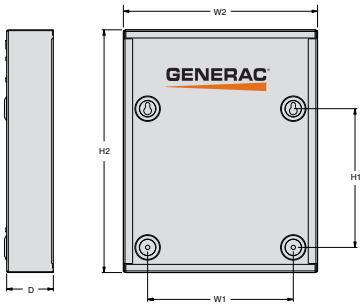
Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). * Maximum wattage and current are subject to and limited by such factors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

Generac® Standby Generator, CorePower™ System - 7 kW

TRANSFER SWITCH & LOAD CENTER	Model 005837-0 (7 kW)
No. of Poles	2
Current Rating (amps)	50
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
Total of Pre-wired Circuits	8
No. 15A 120V	5
No. 20A 120V	1
No. 20A 240V	-
No. 30A 240V	1
No. 40A 240V	-
No. 50A 240V	-
Circuit Breaker Protected Available RMS Symmetrical Fault Current @ 250 Volts	10,000
Weight (Pounds/Kilos)	25/11.3

Transfer Switch Features

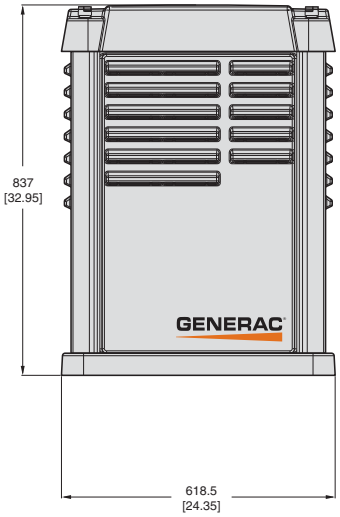
- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2 pole, 250 VAC contactors.
- 160 millisecond transfer time.
- Dual coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 1 (indoor rated) enclosure is standard.
- Flush mountable



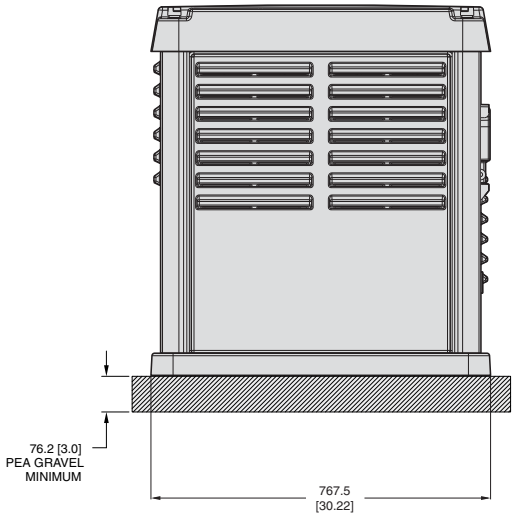
Mechanical Dimensions (in inches/mm)						
Current Rating	No. of Poles	Height		Width		Depth
		H1	H2	W1	W2	
50 UL Listed	2	10.0 in	17.5 in	10.5 in	14.0 in	3.4 in
		254 mm	445 mm	267 mm	356 mm	86 mm

Terminal Wire Ranges			
ATS Rated Amps	Switch Terminal	Neutral Lug/Stud	Ground Lug
50A 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.



FRONT VIEW



RIGHT SIDE VIEW

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