

# 7kW

## CorePower™ System Residential Standby Generators Air-Cooled Gas Engine

### INCLUDES:

Power Rating

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

- Digital LED Controller
- Automatic Transfer Switch with Built-In Priority Load Center
- Composite All Weather Enclosure
- Sound Attenuated 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



## 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.

**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 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 a 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 between studs like a standard electrical panel.
- UL listed For your safety.

**Controls**

- Auto/Off/Manual 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, adjustable 10-30 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. Tool-less 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.
- SAE Sound attenuated enclosure ensures quiet operation.

**Installation System**

- 1ft. (305mm) flexible fuel line connector Easy installation.

**CorePower™ System - 7 kW**

**Generator**

<b>Model</b>	<b>005837-0</b>
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	29.2 / 25
Main Line Circuit Breaker	30 Amp
Phase	1
Number of Rotor Poles	2
Rated AC Frequency	60Hz
Power Factor	1.0
Battery Requirement (not included)	Group 26R, 12 Volts and 350 CCA Minimum
Unit Weight (Pounds/Kilos)	250/113.4
Dimensions (L x W x H) in./mm	24.4 x 30.2 x 33/618.5 x 767.5 x 837
Sound output in dB(A) at 23 ft. (7m) with generator operating at normal load**	67

**Engine**

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. 1.1 Qts./1.0L
Operating RPM	3,600
Fuel Consumption	
Natural Gas	ft <sup>3</sup> /hr (m <sup>3</sup> /hr)
	1/2 Load
	Full Load
Liquid Propane	ft <sup>3</sup> /hr (gal/hr) [Liters/hr]
	1/2 Load
	Full Load

Note: **Fuel pipe must be sized for full load.** Required fuel pressure to generator fuel inlet at all load ranges - 5-7" water column (9-13mm mercury) for natural gas, 10-12" water column (19-22mm mercury) for LP gas. For Btu content, multiply ft<sup>3</sup>/hr x 2500 (LP) or ft<sup>3</sup>/hr x 1000 (NG). For megajoule content, multiply m<sup>3</sup>/hr x 93.15 (LP) or m<sup>3</sup>/hr x 37.26 (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 sec.
Engine Cool-Down	1 min.
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 Fused	Standard

\*\*Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters. 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/megajoule content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases about 3.5 percent for each 1,000 feet (304.8 meters) above sea level; and also will decrease about 1 percent for each 6°C (10°F) above 16°C (60°F).

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**transfer switch**

**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.
- NEMA 1 (indoor rated) enclosure is standard.
- Flush mountable.

Model	005837-0
No. of Poles	2
Current Rating (Amps)	50
Voltage	120/240 1Ø
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

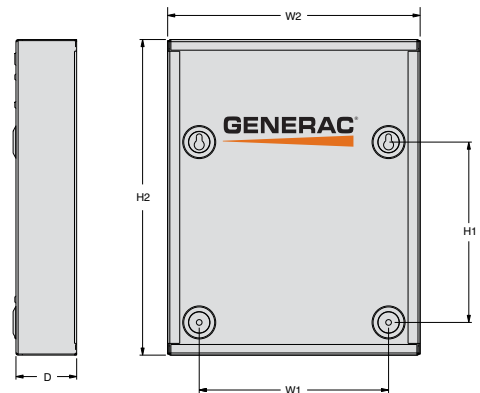
\*Function of Controller

**Dimensions**

Mechanical Dimensions					
Amps	Height		Width		Depth
	H1	H2	W1	W2	D
50	18.5 in	23 in	10.5 in	15.38 in	3.4 in
	470 mm	584 mm	267 mm	391 mm	86 mm

Wire Ranges		
Amps	Neutral Lug	Ground Lug
50	2/0 - #14	2/0 - #14



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Model #	Product	Description
005819-0	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.
005865-0	Cold Weather Kit	The CorePower cold weather kit is recommended for CorePower units installed in regions where the temperature regularly falls below 32°F (0°C).
006003-0	Scheduled Maintenance Kit	Generac's scheduled maintenance kits provide all the hardware necessary to perform complete routine maintenance on a Generac automatic standby generator.

**dimensions**

Dimensions shown are approximate. Contact your Generac dealer for certified drawings. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.

