

6 kW

EcoGen™ SERIES Residential Standby Generators Air-Cooled Gas Engine

INCLUDES:

- Electronic Governor
- External Main Circuit Breaker
- Sound Attenuated Enclosure
- Flexible Fuel Line Connector
- Composite Mounting Pad
- LP Gas Operation Only
- Advanced Oil Circulation System
- Easy Inverter Connections
- 120 V (240 V Capable with Conversion)
- 2000 Hour / 3 Year Limited Warranty
- Capability to be installed within 18" (457 mm) of a building*

Standby Power Rating
Model 005818-1 (Steel - Bisque) - 6 kW 60 Hz



Not for sale in CA

*Only if located away from doors, windows and fresh air intakes, and unless otherwise directed by local codes.

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.
- **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.
- **PURPOSE BUILT FOR RENEWABLE ENERGY APPLICATIONS.** Designed specifically to interact with off-grid renewable energy applications, Generac introduces the first generator intended for alternative energy interaction. Capable of tying into an inverter and battery storage system to supplement the alternative energy source. This provides the cleanest running, low emission solution to recharging house batteries.
- **EXTENDED RUN CAPABILITY.** This innovative oil circulation system extends the maintenance intervals by an unprecedented 5 times the industry standard by offering 500 hour maintenance intervals.

EcoGen™ - 6 kW**features and benefits****Engine**

- Generac (OHVI) Design Maximizes engine “breathing” for increased fuel efficiency. Plateau honed cylinder walls and plasma moly rings helps the engine run cooler, reducing oil consumption resulting in longer engine life.
- “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 Pressurized lubrication to all vital bearings means better performance, less maintenance and 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.
- Oil circulatory system Extends maintenance intervals to 500 hours and virtually eliminates oil degradation.

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 $\pm 2\%$ prevents damaging voltage spikes.
- UL 2200 listed For your safety.

Controls

- Auto/Off/Manual switch Selects the operating mode.
- 2-wire start/Inverter connection Allows the generator to be started by a two wire signal.
- Battery sentinel This smart system only charges the battery when needed, prolonging battery life.
- Main Line Circuit Breaker Protects generator from overload.
- Electronic governor Maintains constant 60 Hz frequency.

Unit

- SAE weather protective enclosure Sound attenuated enclosure ensures quiet operation and protection against mother nature, withstanding winds up to 150 mph. 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.
- Small, compact, attractive Makes for an easy, eye appealing installation.

Installation System

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

EcoGen™ - 6 kW

Generator

Model	005818-0 (6 kW)
Rated Maximum Continuous Power Capacity (LP)	6,000* Watts
Rated Voltage	120 VAC (240 VAC capable w/ kit 006016-1)
Rated Maximum Continuous Load Current – 120 Volts	50 (25 @ 240 VAC)
Main Line Circuit Breaker	50 Amp (25 after conversion)
Phase	1
Number of Rotor Poles	2
Rated AC Frequency	60 Hz
Power Factor	1.0
Battery Requirement (not included)	Group 26R, 12 Volts and 525 CCA Minimum
Unit Weight (lb/kg)	387/175.5
Dimensions (L x W x H) in/mm	48 x 25 x 29/1218 x 638 x 732
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load**	52

Engine

Type of Engine	GENERAC OHVI	
Number of Cylinders	2	
Displacement	530 cc	
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	1.7 qt/1.6 L	
Oil Reservoir Capacity	4.2 qt/4.0 L	
Operating rpm	2,600	
Fuel Consumption		
Liquid Propane	ft ³ /hr (gal/hr) [l/hr]	
	1/2 Load	27.6 (0.76) [2.87]
	Full Load	56.4 (1.55) [5.87]

Note: **Fuel pipe must be sized for full load.** Required fuel pressure to generator fuel inlet at all load ranges - 10-12" water column (19-22 mm mercury) for LP gas. For Btu content, multiply ft³/hr x 2500

Controls

2-Line Plain Text LCD Display	Simple user interface for ease of operation.
Mode Switch: Auto	Puts unit in standby mode, waiting for inverter start call.
Off	Stops unit. Power is removed. Control and charger still operate.
Manual/Test (start)	Start with starter control, unit stays on.
Starter Lock-out	Starter cannot re-engage until 5 sec. after engine has stopped.
2.5 Amp Smart Battery Charger	Standard
Automatic Voltage Regulator w/ Overvoltage Protection	Standard
Automatic Low Oil Pressure Shutdown	Standard
Overspeed Shutdown	Standard, 72 Hz
High Temperature Shutdown	Standard
Overcrank Protection	Standard
Safety Fused	Standard
Low Battery Protection	Standard
50 Event Run Log	Standard
Internal Fault Protection	Standard

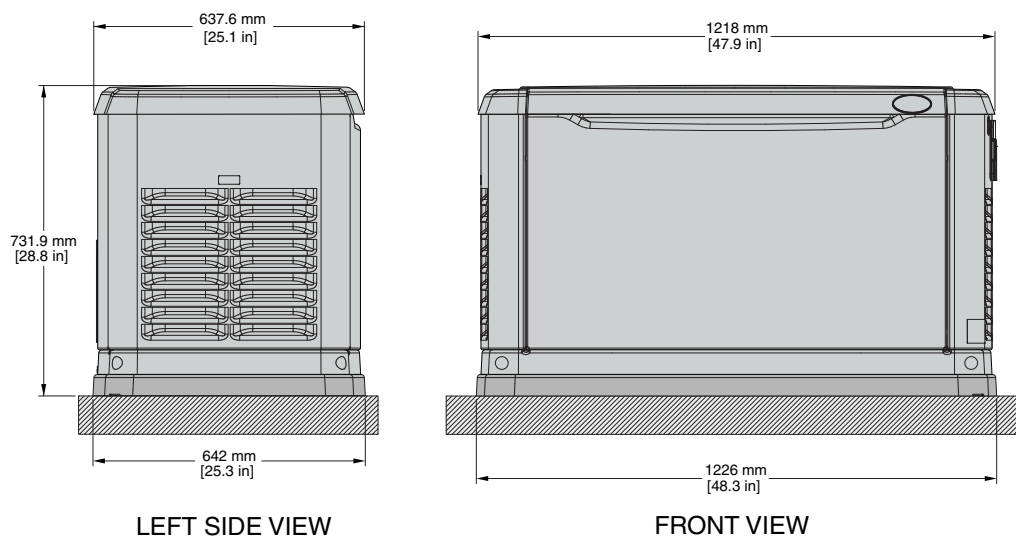
**Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters. Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability 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).

EcoGen™ - 6 kW**available accessories**

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.
005839-0	Fascia Base Wrap Kit	The fascia base wrap snaps together around the bottom of the new air-cooled generators. This offers a sleek, contoured appearance as well as offering protection from rodents and insects by covering the lifting holes located in the base.
005703-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
006004-0	Scheduled Maintenance Kit	Generac's scheduled maintenance kits provide all the hardware necessary to perform complete routine maintenance on a Generac automatic standby generator.
006016-0	240V Conversion Kit	As off-grid energy systems continue to grow in size and capacity, it is becoming more common to have a 240V system instead of only a 120V system. This conversion kit allows the EcoGen to be converted easily from a 120V system to a 240V system and still maintain a full 6 kW output.

dimensions & UPC

Dimensions shown are approximate. Refer to installation manual for exact dimensions. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.



Model	UPC
005818-1	696471058185