



# GENERAC: EcoGen™

## 6 kW

### Air-Cooled LP Engine Generator Set

Standby Power Rating

Model 005818-0 (Steel - Bisque) - 6 kW 60Hz

#### INCLUDES:

- Electronic Governor
- External Main Circuit Breaker
- Flexible Fuel Line Connector
- Composite Mounting Pad
- LP Gas Operation Only
- Advanced Oil Circulation System
- Easy Inverter Connections
- 120V (240V Capable with Conversion)
- 2000 Hour / 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.
- **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.
- **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, 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.



ENGINE	<ul style="list-style-type: none"> <li>•Generac (OHVI) Design</li> </ul>	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"> <li>•“Spiny-lok” cast iron cylinder walls</li> </ul>	Rigid construction and added durability provide long engine life.
	<ul style="list-style-type: none"> <li>•Electronic ignition/spark advance</li> </ul>	These features combine to assure smooth, quick starting every time.
	<ul style="list-style-type: none"> <li>•Full pressure lubrication system</li> </ul>	Superior lubrication to all vital bearings means better performance, less maintenance and significantly longer engine life.
	<ul style="list-style-type: none"> <li>•Low oil pressure shutdown system</li> </ul>	Superior shutdown protection prevents catastrophic engine damage due to low oil.
	<ul style="list-style-type: none"> <li>•High temperature shutdown</li> </ul>	Prevents damage due to overheating.
	<ul style="list-style-type: none"> <li>•Oil circulatory system</li> </ul>	Extends maintenance intervals to 500 hours and virtually eliminates oil degradation.
GENERATOR	<ul style="list-style-type: none"> <li>•Revolving field</li> </ul>	Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
	<ul style="list-style-type: none"> <li>•Displaced phase excitation</li> </ul>	Maximizes motor starting capability.
	<ul style="list-style-type: none"> <li>•Automatic voltage regulation</li> </ul>	Regulates the output voltage to $\pm 2\%$ prevents damaging voltage spikes.
	<ul style="list-style-type: none"> <li>•UL 2200 Listed</li> </ul>	For your safety
CONTROLS	<ul style="list-style-type: none"> <li>•Manual/Auto/Off switch</li> </ul>	Selects the operating mode.
	<ul style="list-style-type: none"> <li>•2-wire start/Inverter connection</li> </ul>	Allows the generator to be started by a two wire signal.
	<ul style="list-style-type: none"> <li>•Battery sentinel</li> </ul>	This smart system only charges the battery when needed, prolonging battery life.
	<ul style="list-style-type: none"> <li>•Main Line Circuit Breaker</li> </ul>	Protects generator from overload.
	<ul style="list-style-type: none"> <li>•Electronic governor</li> </ul>	Maintains constant 60 Hz frequency.
UNIT	<ul style="list-style-type: none"> <li>•Weather protective enclosure</li> </ul>	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.
	<ul style="list-style-type: none"> <li>•Enclosed critical grade muffler</li> </ul>	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
	<ul style="list-style-type: none"> <li>•Small, compact, attractive</li> </ul>	Makes for an easy, eye appealing installation.
INSTALLATION SYSTEM	<ul style="list-style-type: none"> <li>•1' Flexible Fuel Line Connector</li> <li>•Composite Mounting Pad</li> </ul>	Easy Installation

\* Not for use in the state of CA.

<b>GENERATOR</b>		<b>Model 005818-0 (6 kW)</b>
Rated Maximum Continuous Power Capacity (LP)		6,000* Watts
Rated Voltage		120 VAC (240 VAC capable w/kit)
Rated Maximum Continuous Load Current – 120 VAC		50 Amps (25 @240 VAC)
Main Line Circuit Breaker		50 Amps (25 after conversion)
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)		387/175.5
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. (7 meters) with generator operating at normal load		52
<b>ENGINE</b>		<b>Model 005818-0 (6 kW)</b>
Type of Engine		GENERAC OHVI
Number of Cylinders		2
Displacement		530cc
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
Engine Oil Capacity Including Filter (quarts/liters)		1.7Q/1.6L
Oil Reservoir Capacity (quarts/liters)		4.2Q / 4.0L
Engine Operating RPM		2,600
Fuel Consumption		
Liquid Propane	ft <sup>3</sup> /hr (gal/hr)	
	1/2 Load	30.8/0.85
	Full Load	48.2/1.32
Required fuel pressure to generator fuel inlet at all load ranges - 11 to 14 inches of water column for LP gas For Btu content, multiply ft <sup>3</sup> /hr by 2520		
<b>CONTROLS</b>		
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, 72Hz
High Temperature Shutdown		Standard
Overcrank Protection		Standard
Safety Fuse		Standard

\* Rating definitions - Standby: Applicable for supplying emergency power for the duration of the battery charging period. 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).

