Home Standby – 18kW

Air-Cooled Gas Engine Generator Sets

QUIET TEST™
Low Speed Exercise
60 dB(A) at 23 feet

Continuous Standby Power Rating – 18kW 60 Hz
Model Number: 05418
Aluminum - Gray

INCLUDES:

- **Electronic Governor**
- **Flexible Fuel Line Pigtail**
- **Composite Mounting Pad**
- **Natural Gas or LP Gas Operation**
- **UL 2200 Listed** c UL us 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
  - ✓ 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. You are never on your own when you own a GENERAC POWER SYSTEM.

- **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®
POWER SYSTEMS, INC.

HOME STANDBY SPECIFICATIONS

Home Standby – 18kW

ENGINE	• Generac (OHVI) Design	Maximizes engine "breathing" for increased fuel efficiency. Cylinder walls run cooler, reducing oil consumption. Because heat is the primary cause of engine wear, the OHVI has a significantly longer life than competitive engines.
	• "Spiny-lok" cast iron cylinder walls	Rigid construction and added durability provide long engine life.
	• Electronic ignition, spark advance and compression release	These features combine to assure smooth, quick starting every time.
	• Full pressure lubrication system	Superior lubrication to all vital bearings means 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.
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. Provides more surge capability than brushless generator designs.
	• Automatic voltage regulation	Regulates the output voltage to ±2% prevents damaging voltage spikes.
	• UL 2200 Listed	For your safety.
TRANSFER SWITCH (OPT)	• Fully Automatic	Transfers your vital electrical loads to the energized source of power.
	• 100, 200 or 400 Amp (options)	Required (order separately).
	• Remote Mounting	Mounts near your existing distribution panel for simple, low cost installation.
	• UL Listed	For your safety.
MICROPROCESSOR CONTROL	• Manual/Auto/Off switch	Selects the operating mode.
	• Utility voltage sensing	Constantly monitors utility voltage, setpoints 65% dropout, 75% pick-up, of standard voltage.
	• Utility interrupt delay	Prevents nuisance start-ups of the engine, set point approximately 10 seconds.
	• Engine warm-up	Ensures engine is ready to assume the load, setpoint approximately 10 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 voltage to insure starting.
	• Main Line Circuit Breaker	Protects generator from overload.
UNIT	• 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. Corrosion resistant aluminum is standard.
	• 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 KIT	• 1/2" Dia. Flexible Fuel Line Pigtail • Composite Mounting Pad (Std)	Easy Installation.

GENERAC®
POWER SYSTEMS, INC.

Home Standby – 18kW

GENERATOR	Model 05418 - Aluminum
Rated Maximum Continuous Power Capacity (LP)	18,000 Watts*
Rated Maximum Continuous Power Capacity (NG)	16,000 Watts*
Rated Voltage	120/240
Rated Maximum Continuous Load Current	
240 Volts	75.0 LP/66.6 NG
Main Line Circuit Breaker	80 Amp
Phase	1
Number of Rotor Poles	2
Rated AC Frequency	60Hz
Power Factor	1
Battery Requirement (not included)	Group 26, 12 Volt Negative Ground and 525 Cold-cranking Amperes Minimum
Unit Weight	451 Pounds
Dimensions (L" x W" x H")	48 x 24 x 28-1/4
Sound output in dB(A) at 23 ft. with generator at normal operating load	66
Sound output in dB(A) at 23 ft. with generator in Quiet-Test™ exercise mode	60

ENGINE	Model 05418 - Aluminum
Type of Engine	GENERAC OHVI V-TWIN
Number of Cylinders	2
Rated Horsepower	31.5 @ 3,600 rpm
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	12Vdc
Oil Capacity Including Filter	Approx. 1.7 Qts.
Standby Operating RPM	3,600
Exercise RPM	2,400
Fuel Consumption	
Natural Gas cu.ft./hr.	
1/2 Load	181.3
Full Load	262
Liquid Propane ft3/hr (gal/hr)	
1/2 Load	71.6 (1.97)
Full Load	103.5 (2.85)

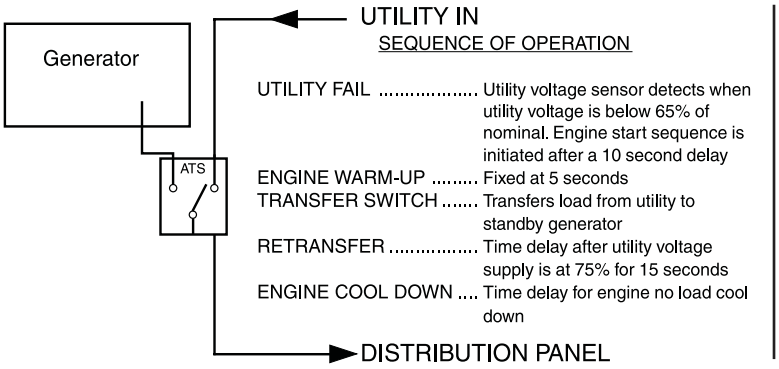
Required fuel pressure to generator fuel inlet at all load ranges - 5 to 7 inches of water column for natural gas, 10 to 12 inches of water column for LP gas

CONTROLS

Mode Switch

-Auto	– Automatic start and stop on utility failure and return. 7 day exerciser. Cyclic cranking 7 seconds on, 7 seconds rest for 90 seconds maximum.
-Off	– Stops unit. Power is removed from controller. Battery charger will still operate.
-Manual/Test (start)	– Start with starter control, unit will stay on. If utility fails, transfer will take place.

HOME STANDBY TRANSFER SWITCH (ORDERED SEPARATELY)



Transfer Switch Rating	100/200/400 Amps
Number of Poles	2
UL Listed	Yes, UL 1008
Enclosure	NEMA 1
	NEMA 3R
Interrupt Rating	10,000 Amps
Maximum Switching Time	160 Milliseconds
Maximum Voltage	240 Volts
Exercise Time	Automatic 15 Minutes Each Week

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). Prime (Unlimited Running Time): Unit not recommended for prime power applications. Applicable for supplying electric power in lieu of commercially purchased power. Prime power is the maximum power available at variable load. A 10% overload capacity is available for 1 hour in 12 hours. (All ratings in accordance with BS5514, ISO3046, ISO8528 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).

STANDARD ENGINE & SAFETY FEATURES

Home Standby – 18kW

- High Temperature Automatic Shutdown
- Low Oil Pressure Automatic Shutdown
- Overspeed Automatic Shutdown (Solid-state)
- Crank Limiter (Solid-state)
- Oil Drain Extension
- Rubber-Booted Engine Electrical Connections
- Fuel Lockoff Solenoid
- Secondary Fuel Regulator (N.G. and L.P.)
- Battery Charge Alternator
- Battery Cables
- Battery Tray
- Vibration Isolation of Unit to Mounting Base
- 12 Volt, Solenoid-Activated Starter Motor
- Air Cleaner
- Fan Guard
- Control Console
- Muffler Guard
- Flexible Fuel Lines
- Critical Exhaust Silencer
- Battery Trickle Charger
- Main Line Circuit Breaker
- Weather Protective Enclosure (Locking Type)

HOME STANDBY CONTROL FEATURES

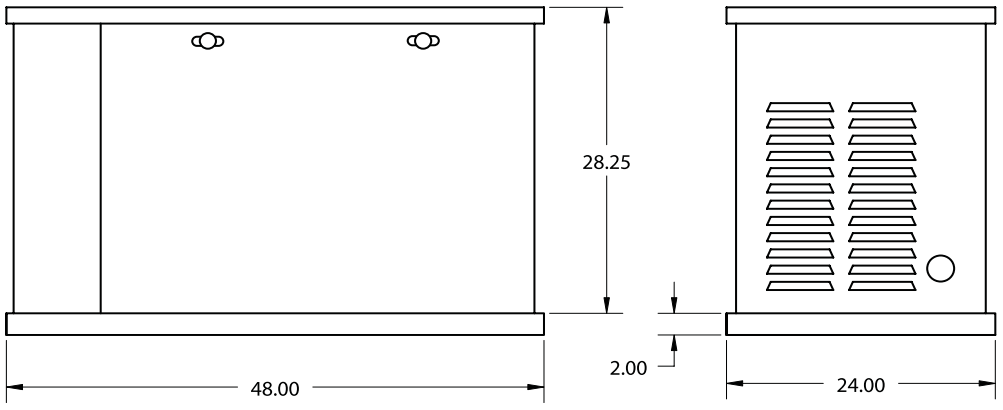
Home Standby Control Console

- Manual/Auto/Off switch
- Fault indicator lamps
- Fuse (panel overload)
- Set exercise time switch

Home Standby Microprocessor Controls

- Automatic voltage regulation
- Utility voltage sensing
- Utility interrupt delay (10-second setpoint)
- Engine warm-up (10-second setpoint)
- Engine cool-down (1-minute setpoint)
- Seven-day exerciser

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.



18 kW UNIT WEIGHT: 451 lbs.

GENERAC® POWER SYSTEMS, INC. • P.O. BOX 8 • WAUKESHA, WI 53187
262/544-4811 • FAX 262/544-4851

Bulletin 0174200SBY / Printed in USA 04.07