

Home Standby - 18kW

Air-Cooled Gas Engine Generator Sets

Whisper-Test™
Low Speed Exercise
60 dB(A) at 23 feet

Continuous Standby Power Rating
Model 05416 (Aluminum - Gray) - 18kW 60Hz

INCLUDES:

- 200 Amp Automatic Transfer Switch
– *Service Entrance Rated*
- Electronic Governor
- Flexible Fuel Line Pigtail
- Aluminum Corrosion Resistant Enclosure
- Composite Mounting Pad
- Natural Gas or LP Gas Operation
- UL 2200 Listed



WHISPER-TEST™

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.



HOME STANDBY SPECIFICATIONS

Home Standby - 18kW

<p style="text-align: center;">ENGINE</p>	<ul style="list-style-type: none"> •Generac (OHVI) Design •"Spiny-lok" cast iron cylinder walls •Electronic ignition, spark advance and compression release •Full pressure lubrication system •Low oil pressure shutdown system •High temperature shutdown 	<p>Maximizes engine "breathing" for increased fuel efficiency. Plateau honed cylinder walls and plasma molly 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.</p> <p>Rigid construction and added durability provide long engine life.</p> <p>These features combine to assure smooth, quick starting every time.</p> <p>Superior lubrication to all vital bearings means better performance, less maintenance and significantly longer engine life. Now featuring a 200 hour oil change interval.</p> <p>Superior shutdown protection prevents catastrophic engine damage due to low oil.</p> <p>Prevents damage due to overheating.</p>
<p style="text-align: center;">GENERATOR</p>	<ul style="list-style-type: none"> •Revolving field •Skewed stator •Displaced phase excitation •Automatic voltage regulation •UL 2200 Listed 	<p>Allows for smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.</p> <p>Produces a smooth output waveform for compatibility with electronic equipment.</p> <p>Maximizes motor starting capability. Provides more surge capability than brushless generator designs.</p> <p>Regulates the output voltage to $\pm 2\%$ prevents damaging voltage spikes.</p> <p>For your safety</p>
<p style="text-align: center;">TRANSFER SWITCH</p>	<ul style="list-style-type: none"> •200 Amp Service Entrance Rated 	<p>Fast and easy installation. Covers (1) one 200 amp distribution panel.</p>
<p style="text-align: center;">MICROPROCESSOR CONTROL</p>	<ul style="list-style-type: none"> •Manual/Auto/Off switch •Utility voltage sensing •Utility interrupt delay •Engine warm-up •Engine cool-down •Seven day exerciser •Timed Trickle Battery charger •Main Line Circuit Breaker 	<p>Selects the operating mode.</p> <p>Constantly monitors utility voltage, setpoints 60% dropout, 70% pick-up, of standard voltage.</p> <p>Prevents nuisance start-ups of the engine, set point approximately 10 seconds.</p> <p>Ensures engine is ready to assume the load, setpoint approximately 10 seconds.</p> <p>Allows engine to cool prior to shutdown, setpoint approximately 1 minute.</p> <p>Operates engine to prevent oil seal drying and damage between power outages.</p> <p>Maintains battery amperage to insure starting.</p> <p>Protects generator from overload.</p>
<p style="text-align: center;">UNIT</p>	<ul style="list-style-type: none"> •Weather protective enclosure •Enclosed critical grade muffler •Small, compact, attractive 	<p>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. Aluminum enclosure offers further corrosion protection.</p> <p>Quiet, critical grade muffler is mounted inside the unit to prevent injuries.</p> <p>Makes for an easy, eye appealing installation.</p>
<p style="text-align: center;">INSTALLATION SYSTEM</p>	<ul style="list-style-type: none"> •1' Flexible Fuel Line Pigtail •Composite Mounting Pad 	<p>Easy Installation</p>

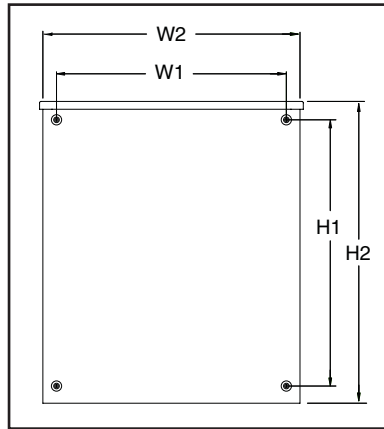
GENERATOR		Model 05416
Rated Maximum Continuous Power Capacity (LP).....		18,000 Watts*
Rated Maximum Continuous Power Capacity (NG).....		16,000 Watts*
Rated Voltage.....		120/240
Rated Maximum Continuous Load Current		
120 Volts		150 LP/133.3 NG
240 Volts		75 LP/66.6 NG
Main Line Circuit Breaker		80 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 lbs.
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 <i>Whisper-Test™</i> low speed exercise mode		60
ENGINE		Model 05416
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		2400
Fuel Consumption		
Natural Gas ft ³ /hr		
.....1/2 Load		184
.....Full Load		262
Liquid Propane ft ³ /hr (gal/hr)		
.....1/2 Load		66.4 (1.83)
.....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 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: 7 sec. on, 7 rest (90 sec. maximum duration)
Engine Warm-up		10 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).

TRANSFER SWITCH	Model: 05416
No. of Poles	2
Current Rating (amps)	200
Voltage Rating (VAC)	250
Utility Voltage Monitor (fixed)	
-Pick-up	70%
-Dropout	60%
Return to Utility	approx. 13 sec.
Exerciser weekly for 12 minutes	Standard
UL Listed	Standard
Dimensions (H" x W" x D")	23.5 x 20 x 7.25
Circuit Breaker Protected	
Available RMS Symmetrical	
Fault Current @ 250 Volts	10,000

Transfer Switch Features

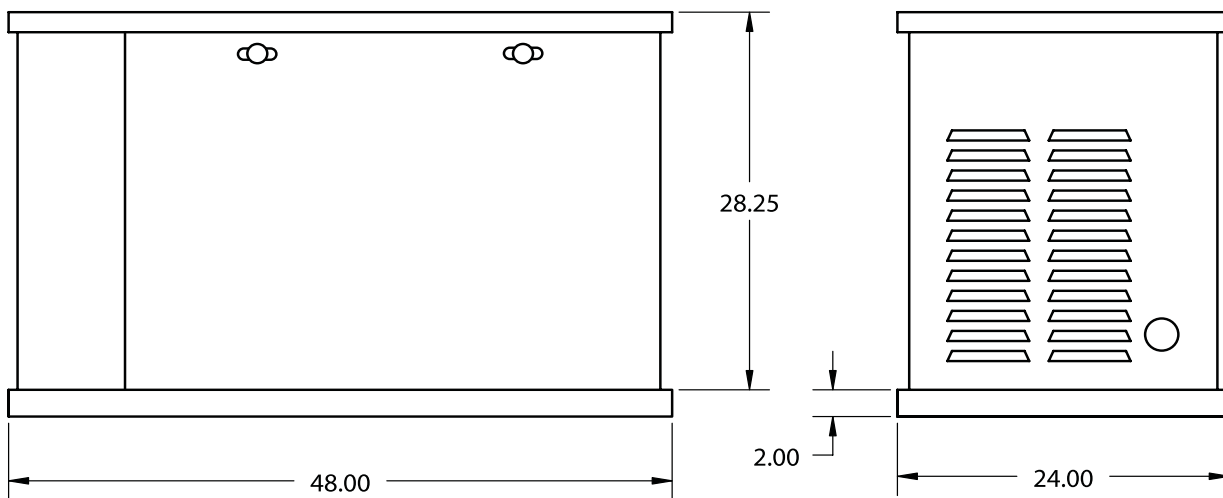
- Service Entrance Rated
- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2 pole, 250 VAC contactors.
- 160 millisecond transfer time.
- Dual coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 3R (Outdoor rated) enclosure is standard on the 200 amp switch.



Mechanical Dimensions (in inches)						
Current Rating	No. of Poles	Height		Width		Depth
		H1	H2	W1	W2	
200 Amp UL Listed	2	20.75	23.5	17.9	20	7.25

Terminal Wire Ranges			
ATS Rated Amps	CB Terminal	Neutral Lug Assy	Ground Assy
200A 2-Pole UL	2 x 300 MCM - #1	4 x 350 MCM - #6	5 x #4 - #14
Mounting Holes	4 x .25 Diameter		

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.