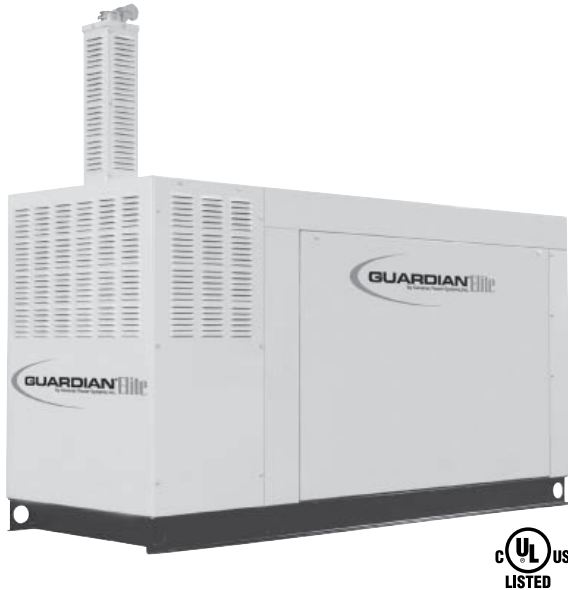


Standby Power Rating

60 kW 60 Hz

Liquid Cooled Gas Engine Generator Sets



WHISPER-TEST™

Low Speed Exercise
61 dB(A) at 23 feet

GENERAC 3.0L ENGINE

Naturally Aspirated
Gaseous Fueled

UL 2200 Listed

STANDARD EQUIPMENT

- All input connections in one single area
- High coolant temperature shutdown
- Low oil pressure shutdown
- Low coolant level automatic shutdown
- Overspeed automatic shutdown
- Crank timer
- Exercise timer
- Oil drain extension
- Cool flow radiator
- Closed coolant recovery system
- UV/Ozone resistant hoses
- Watertight state of the art electrical connectors
- Mainline circuit breaker
- Radiator drain extension
- Battery charge alternator
- 2 Amp static battery charger
- Battery and battery cables
- Battery rack
- Fan and belt guards
- Isochronous governor
- Flex fuel line

FEATURES

- Innovative design and fully prototype tested
- UL2200 Listed
- Solid state frequency compensated voltage regulator
- Dynamic and static battery charger
- Sound attenuated acoustically designed enclosure
- Whisper-Test™ for low noise level exercise
- Acoustically designed engine cooling system
- High flow low noise factory engineered exhaust system
- State of the art control system with R-100 digital control panel
- Watertight electrical connectors
- Rodent proof construction
- High efficiency, low distortion Generac designed alternator
- Vibration isolated from mounting base
- Matching Generac transfer switches engineered and tested to work as a system
- All components easily accessible for maintenance
- Electrostatically applied textured powder paint

GUARDIAN® Elite
by Generac Power Systems, Inc.

COMMERCIAL SERIES

GENERATOR SPECIFICATIONS

TYPE.....	Synchronous
ROTOR INSULATION.....	Class H
STATOR INSULATION.....	Class H
TOTAL HARMONIC DISTORTION.....	<5%
TELEPHONE INTERFERENCE FACTOR (TIF).....	<50
ALTERNATOR OUTPUT LEADS 3 PHASE.....	4 wire
BEARINGS.....	Sealed Ball
COUPLING.....	Flexible Disc
LOAD CAPACITY (STANDBY RATING).....	60 kW
EXCITATION SYSTEM.....	Direct

NOTE: Generator rating and performance in accordance with ISO8528-5, BS5514, SAE J1349, ISO3046, and DIN6271 standards.

VOLTAGE REGULATOR

TYPE.....	Electronic
SENSING.....	Single Phase
REGULATION.....	± 1%
FEATURES.....	V/F Adjustable Adjustable Voltage and Gain LED Indicators

GENERATOR FEATURES

- Revolving field heavy duty generator
- Directly connected to the engine
- Operating temperature rise 120 °C above a 40 °C ambient
- Insulation is Class H rated at 150 °C rise
- All models are fully prototyped tested

CONTROL PANEL FEATURES

- | | |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> SEVEN LED INDICATOR LIGHTS <ul style="list-style-type: none"> • System ready • Low fuel pressure • Low battery • Low oil pressure • High coolant temp/low coolant temp • Overspeed • Overcrank <input type="checkbox"/> INTERNAL FUNCTIONS: <ul style="list-style-type: none"> • 3 position switch (auto, off and manual) • 2 wire start for any transfer switch • Communicates with the Generac RTS transfer switch • Built-in 7 day exerciser • Selectable engine speed at exercise • Governor controller is built into the master control board • Temperature range -40 °C to 70 °C | <ul style="list-style-type: none"> <input type="checkbox"/> ADDITIONAL FUNCTIONS <ul style="list-style-type: none"> • Utility sensing • Delay on utility failure for engine start • Engine warm-up before transfer • Delay to retransfer to utility • Engine cooldown timer • Exerciser not set |
|--|---|

ENGINE SPECIFICATIONS

MAKE.....	Generac
MODEL.....	3.0 Liter
CYLINDERS.....	V-6
DISPLACEMENT.....	3.0 Liter
BORE.....	3.55
STROKE.....	3.1
COMPRESSION RATIO.....	9.3:1
INTAKE AIR SYSTEM.....	Naturally Aspirated
VALVE SEATS.....	Hardened
LIFTER TYPE.....	Hydraulic - Overhead Cam

GOVERNOR SPECIFICATIONS

TYPE.....	Electronic
FREQUENCY REGULATION.....	± Isochronous
STEADY STATE REGULATION.....	± 0.25%
ADJUSTMENTS FOR:	
Speed.....	Yes
Droop.....	Yes

ENGINE LUBRICATION SYSTEM

OIL PUMP.....	Gear
OIL FILTER.....	Full flow spin-on cartridge
CRANKCASE CAPACITY.....	4 Quarts

ENGINE COOLING SYSTEM

TYPE.....	Closed
WATER PUMP.....	Belt driven
FAN SPEED.....	2180
FAN DIAMETER.....	22 inches
FAN MODE.....	Puller

FUEL SYSTEM

FUEL TYPE.....	Natural gas, propane vapor
CARBURETOR.....	Down Draft
SECONDARY FUEL REGULATOR.....	Standard
FUEL SHUT OFF SOLENOID.....	Standard
OPERATING FUEL PRESSURE.....	5" - 14" H ₂ O

ELECTRICAL SYSTEM

BATTERY CHARGE ALTERNATOR.....	12V 30 Amp
STATIC BATTERY CHARGER.....	2 Amp
RECOMMENDED BATTERY.....	Group 24F, 525CCA
SYSTEM VOLTAGE.....	12 Volts

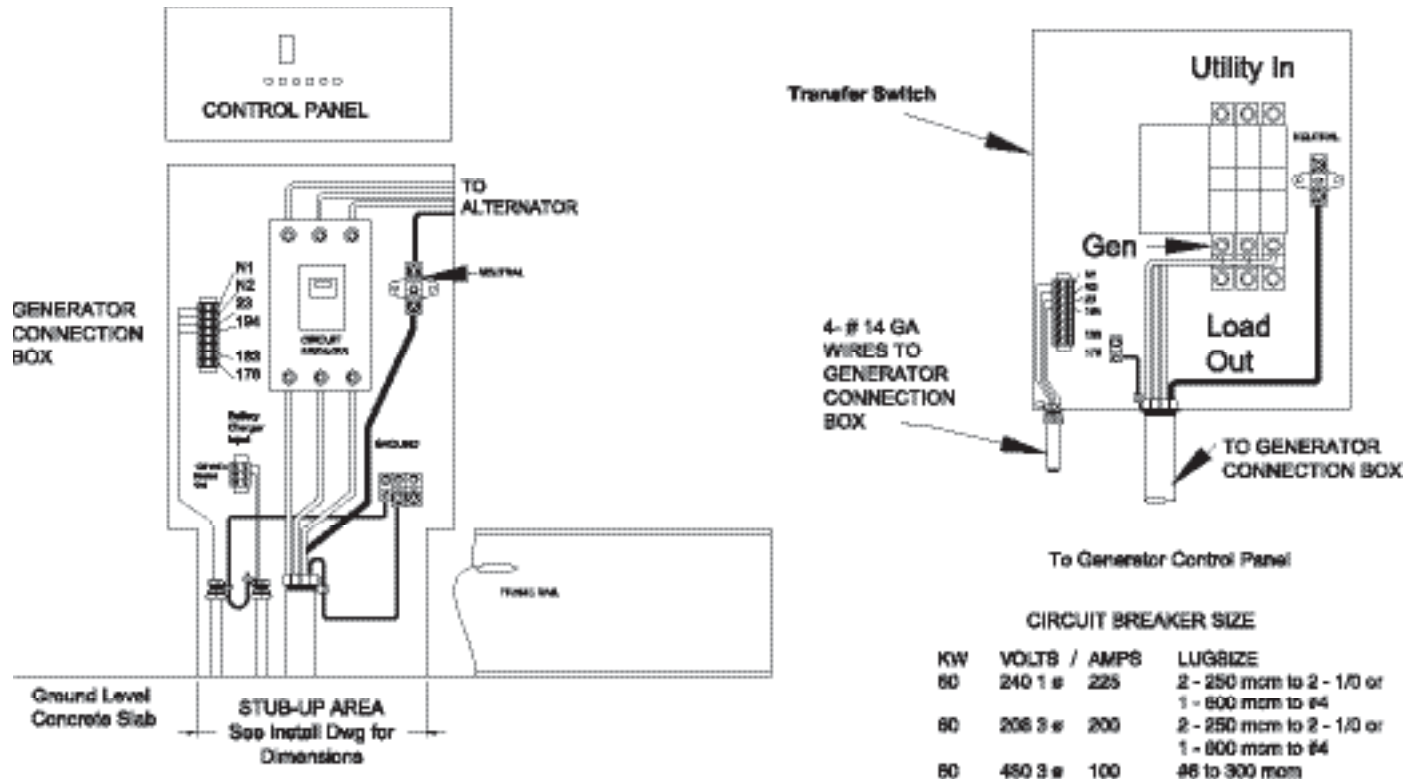
OPERATING DATA

		COMMERCIAL 60		
KW RATING		60		
ENGINE SIZE		3.0 Liter V-6		
GENERATOR OUTPUT VOLTAGE/KW - 60Hz		KW	AMP	CB Size
120/240V, 1-phase, 1.0 pf		60	250	300
120/208V, 3-phase, 0.8 pf		60	208	250
277/480V, 3-phase, 0.8 pf		60	90	100
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35%				
Single phase or 208 3-phase		120		
480V 3-phase		141		
ENGINE FUEL CONSUMPTION (Natural Gas) (Propane)		Natural Gas (ft ³ /hr.)	Propane (gal/hr.) cu ft/hr	
Exercise cycle		123	1.34	49.3
25% of rated load		260	2.84	87.2
50% of rated load		500	5.46	167.8
75% of rated load		700	7.64	233.3
100% of rated load		960	10.48	322.7
ENGINE COOLING				
Air flow (inlet air including alternator and combustion air)		ft ³ /min.	3,280	
System coolant capacity		US gal.	2.5	
Heat rejection to coolant		BTU/hr.	270,000	
Max. operating air temp. on radiator		°C (°F)	60 (150)	
Max. ambient temperature		°C (°F)	50 (140)	
COMBUSTION AIR REQUIREMENTS				
Flow at rated power 60 Hz		cfm	180	
SOUND EMISSIONS IN DBA				
Exercising at 7 meters (23 feet)		61		
Full load at 7 meters (23 feet)		75		
EXHAUST				
Exhaust flow at rated output 60 Hz		cfm	494	
Exhaust temp. at muffler outlet		°F	1,050	
ENGINE PARAMETERS				
Rated synchronous RPM		60 Hz	3600	
HP at rated KW		60 Hz	94	
POWER ADJUSTMENT FOR AMBIENT CONDITIONS				
Temperature Deration				
3% for every 10 °C above - °C		25		
1.65% for every 10 °F above - °F		77		
Altitude Deration				
1% for every 100 m above - m		183		
3% for every 1000 ft. above - ft.		600		

RATING: All three phases units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice. KW rating is based on LPG Fuel and may derate with natural gas. Maximum wattage and current are subject to and limited by such factors as fuel Btu content, ambient temperature, altitude, engine power and condition, etc.

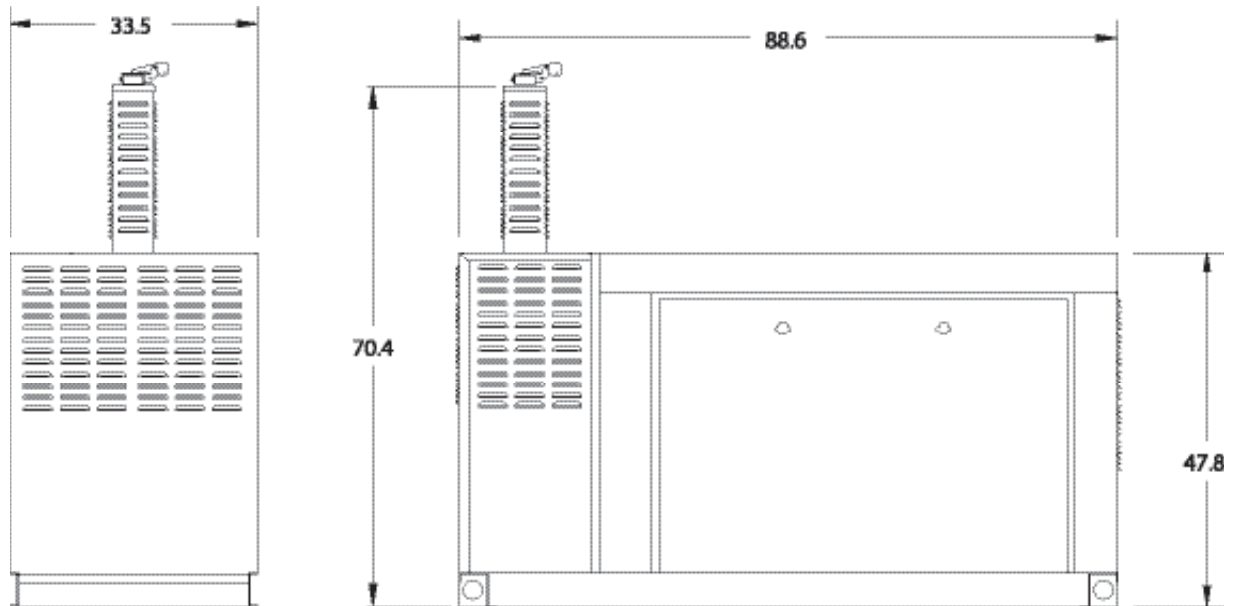
INTERCONNECTIONS

60 kW



Installation Drawing Ref. No. 0F6288

INSTALLATION LAYOUT



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