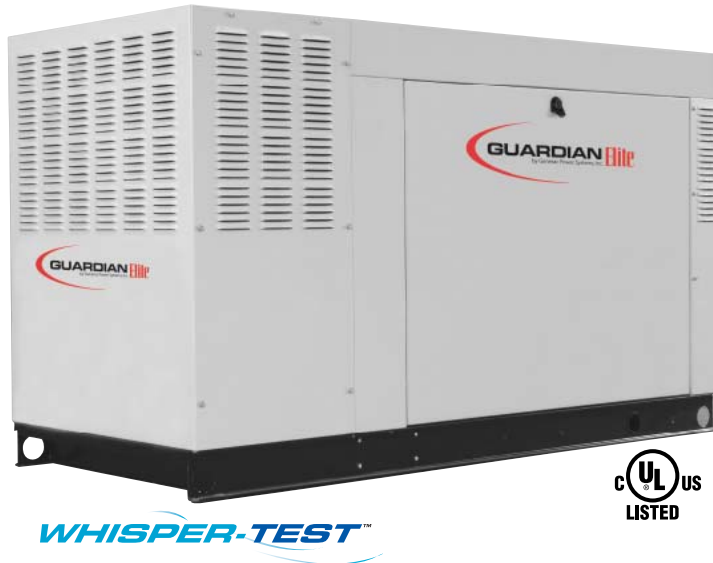


Standby Power Rating

35 kW 60 Hz

Liquid Cooled
Gas Engine
Generator Sets



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

GENERAC 4.2L ENGINE

Naturally Aspirated
Gaseous Fueled

UL 2200 Listed

Transfer Switch is sold separately

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
- Battery charge alternator
- 2 Amp static battery charger
- Battery rack and battery cables
- Fan and belt guards
- Isochronous governor
- Flex fuel line pigtail

FEATURES

- Innovative design and fully prototype tested
- UL 2200 Listed
- Solid state frequency compensated voltage regulator
- Dynamic and static battery charger
- Sound attenuated acoustically designed aluminum enclosure
- *Whisper-Test™* feature 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-Series 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 powder paint



APPLICATION & ENGINEERING DATA

COMMERCIAL 35 kW

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).....	35 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 25 °C ambient
- Insulation is Class H rated at 150 °C rise
- All models are fully prototyped tested

CONTROL PANEL FEATURES

- | | |
|---|---|
| <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"/> 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 |
|---|---|
- INTERNAL FUNCTIONS:
- 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

ENGINE SPECIFICATIONS

MAKE	Generac
MODEL.....	V-6
CYLINDERS.....	6
DISPLACEMENT.....	4.2 Liter
BORE	3.81
STROKE.....	3.8
COMPRESSION RATIO.....	9.4:1
INTAKE AIR SYSTEM.....	Naturally Aspirated
VALVE SEATS	Precision ground and hardened
LIFTER TYPE.....	Roller, Hydraulic

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.....	5 Quarts

ENGINE COOLING SYSTEM

TYPE	Pressurized Closed
WATER PUMP FLOW.....	10.8 gal/min
FAN SPEED	1300
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 26, 525 CCA
SYSTEM VOLTAGE.....	12 Volts

COMMERCIAL 35 kW

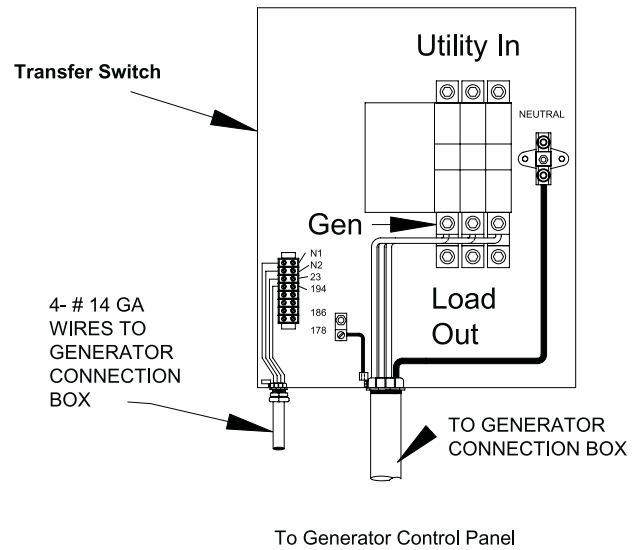
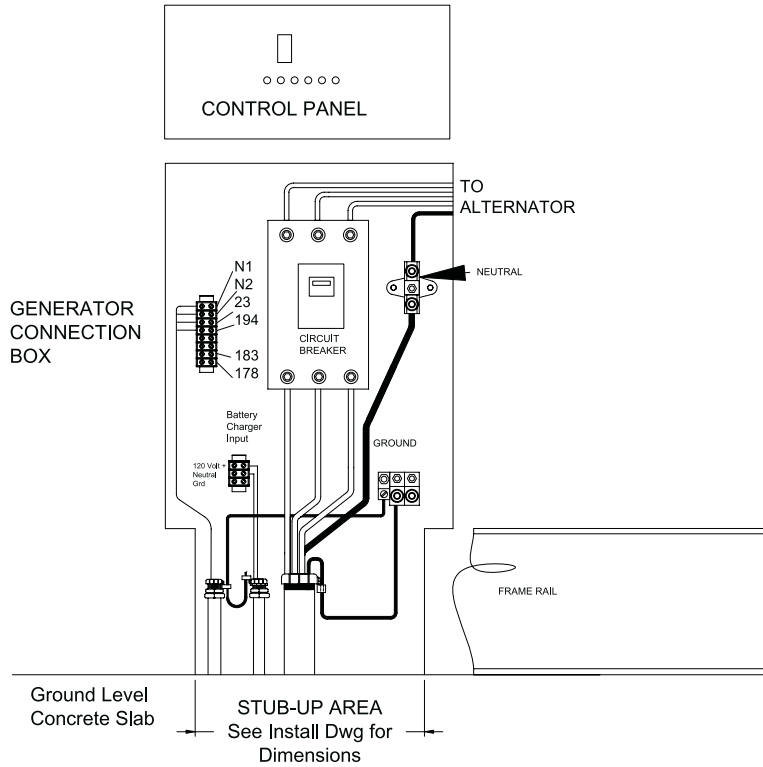
OPERATING DATA

		COMMERCIAL 35 kW		
KW RATING		35		
ENGINE SIZE		4.2 Liter V-6		
GENERATOR OUTPUT VOLTAGE/KW - 60Hz		KW	AMP	CB Size
120/208V, 3-phase, 0.8 pf		35	121.5	150
120/240V, 3-phase, 0.8 pf		35	105.3	125
277/480V, 3-phase, 0.8 pf		35	52.6	60
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35%				
208 or 240V, 3-phase		69		
480V, 3-phase		76		
ENGINE FUEL CONSUMPTION (Natural Gas) (Propane)		Natural Gas (ft ³ /hr.)	Propane (gal/hr.)	cu ft/hr
Exercise cycle		104	1.4	50
25% of rated load		188	1.6	60
50% of rated load		300	3.0	111
75% of rated load		385	4.1	149
100% of rated load		485	5.1	185
ENGINE COOLING				
Air flow (inlet air including alternator and combustion air)		ft ³ /min.	2,460	
System coolant capacity		US gal.	3.0	
Heat rejection to coolant		BTU/hr.	159,000	
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	81	
SOUND EMISSIONS IN DBA				
db(A) @ 23 feet in exercise mode		60		
db(A) @ 23 feet at normal operating load		65		
EXHAUST				
Exhaust flow at rated output 60 Hz		cfm	261	
Exhaust temp. at muffler outlet		°F	900	
ENGINE PARAMETERS				
Rated synchronous RPM		60 Hz	1800	
HP at rated KW		60 Hz	54	
POWER ADJUSTMENT FOR AMBIENT CONDITIONS				
Temperature Deration		3% for every 10 °C above - °C	40	
		1.65% for every 10 °F above - °F	104	
Altitude Deration		1% for every 100 m above - m	915	
		3% for every 1000 ft. above - ft.	3000	

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. Maximum wattage and current are subject to and limited by such factors as fuelBtu content, ambient temperature, altitude, engine power and condition, etc.

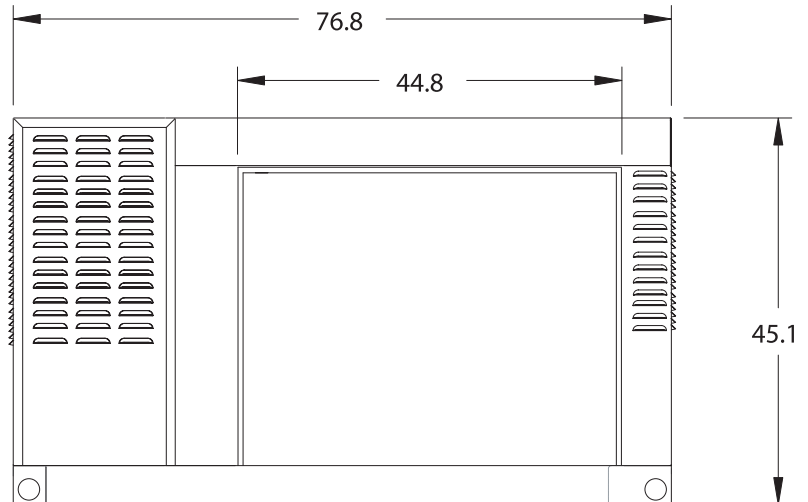
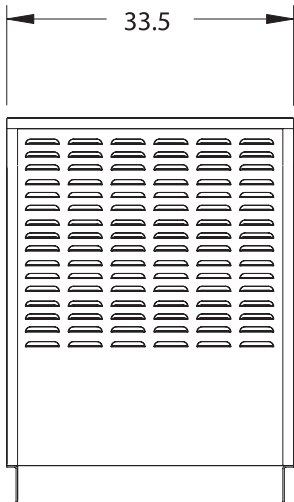
INTERCONNECTIONS

COMMERCIAL 35 kW



KW	CIRCUIT BREAKER SIZE		
	VOLTS	/ AMPS	LUG SIZE
35	208 3 Ø	150	#6 to 300 mcm
35	240 3 Ø	125	#6 to 300 mcm
35	480 3 Ø	60	#6 to 300 mcm

INSTALLATION LAYOUT



UNIT WEIGHT: Aluminum 1683 lbs.

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 WEBSITE: www.guardiangenerators.com