Standby Power Rating

100 kW 60 Hz

Liquid Cooled Gas Engine Generator Sets



Whisper-Test Mark Low Speed Exercise 61 dB(A) at 23 feet

GENERAC 6.8L 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
- Low fuel pressure
- Overspeed automatic shutdown
- · Adjustable cranking timer
- Adjustable 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
- Oil drain extension to frame rail
- Radiator drain extension
- Battery charge alternator
- 2 Amp static battery charger
- Battery, 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 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 digital control system with H-100 microprocessor control panel

- Built-in kW, kVAR and power factor meters
- 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



GENERATOR SPECIFICATIONS

TYPE	Synchronous
ROTOR INSULATION	Class H
STATOR INSULATION	Class H
TOTAL HARMONIC DISTORTION	<3.5%
TELEPHONE INTERFERENCE FACTOR (TIF)	<50
ALTERNATOR OUTPUT LEADS 3 PHASE	4 wire
BEARINGS	Sealed Ball
COUPLING	Gear Drive
LOAD CAPACITY (STANDBY RATING)	100 kW
EXCITATION SYSTEM	Brushless

Generator rating and performance in accordance with IS08528-5. BS5514, SAE J1349, ISO3046, and DIN6271 standards.

VOLTAGE REGULATOR

TYPE	Full Digital
SENSING	3 Phase
REGULATION	± 1/4%
FEATURES	Built into H-100 Control Panel
	V/F Adjustable
	Adjustable Voltage and Gain

GENERATOR FEATURES

- Revolving field heavy duty generator
- Quiet drive coupling
- Operating temperature rise 120 °C above a 40 °C ambient
- ☐ Insulation is Class H rated at 150 °C rise
- ☐ All prototype models have passed three phase short circuit testing

CONTROL PANEL FEATURES

TWO FOUR LINE LCD DISPLAYS READ:

- Voltage (all phases)
- Power factor
- kVAR
- · Engine speed
- Run hours
- Fault history
- Coolant temperature
- Low oil pressure shutdown
- Overvoltage
- · Low coolant level
- Not in auto position (flashing light)

- · Current (all phases)
- kW
- Transfer switch status
- · Low fuel pressure
- Service reminders
- Oil pressure
- · Time and date
- High coolant temperature shutdown
- Overspeed
- · ATS selection
- · Exercise speed

☐ INTERNAL FUNCTIONS:

- 1²T function for alternator protection from line to neutral and line to line short circuits
- Emergency stop
- Programmable auto crank function
- · 2 wire start for any transfer switch
- · Communicates with the Generac HTS transfer switch
- · Built-in 7 day exerciser
- · Adjustable engine speed at exerciser
- RS232 port for GenLink® control
- RS485 port remote communication
- · Canbus addressable
- · Governor controller and voltage regulator are built into the master control board
- Temperature range -40 °C to 70 °C

ENGINE SPECIFICATIONS

MAKE	
MODEL	V Type
CYLINDERS	10
DISPLACEMENT	6.8 Liter
BORE	
STROKE	4.17
COMPRESSION RATIO	
INTAKE AIR SYSTEM	Naturally Aspirated
VALVE SEATS	Hardened
LIFTER TYPE	Hydraulic

GOVERNOR SPECIFICATIONS

TYPE	Electronic
FREQUENCY REGULATION	Isochronous
STEADY STATE REGULATION	± 0.25%
All functions are factory preset.	
Individual parameter adjustments can be made via Genl ink®	

ENGINE LUBRICATION SYSTEM

OIL PUMP	Gear
OIL FILTER	Full flow spin-on cartridge
CRANKCASE CAPACITY	5 Quarts

ENGINE COOLING SYSTEM

TYPE	
WATER PUMP	Belt driven
FAN SPEED	1670
FAN DIAMETER	26 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	11" - 14" H ₂ 0

ELECTRICAL SYSTEM

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

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). (All ratings in accordance with BS5514, ISO3046, ISO8528 and DIN6271).

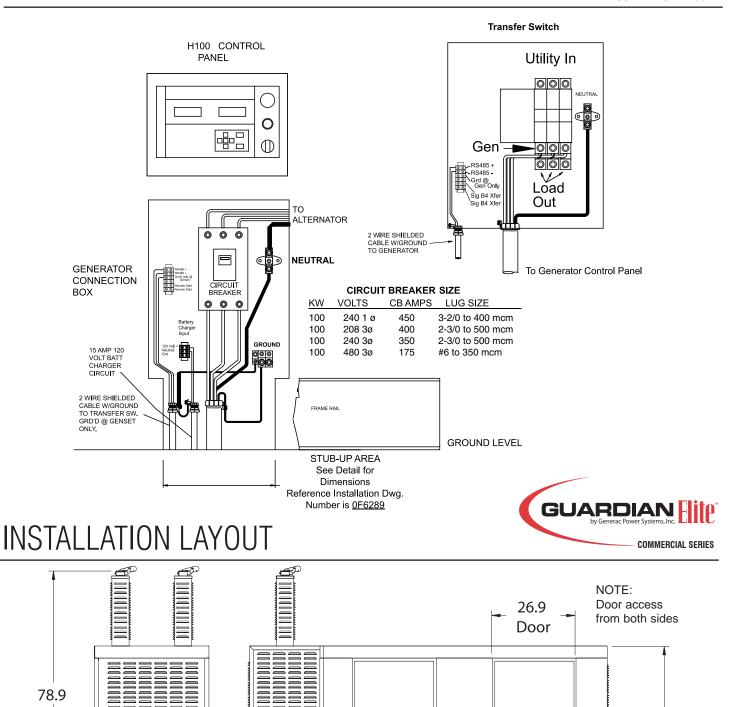


COMMERCIAL 100 kW commercial series

OPERATING DATA			COMMERCIAL 100 kW	
KW RATING			100	
ENGINE SIZE		6.8 Liter V-10		
GENERATOR OUTPUT VOLTAGE/KW - 60Hz 120/240V, single phase, 1.0 pf 120/208V, 3-phase, 0.8 pf 120/240V, 3-phase, 0.8 pf 277/480V, 3-phase, 0.8 pf		KW 100 LP / 98 NG 100 LP / 98 NG 100 LP / 98 NG 100 LP / 98 NG	AMP 416.6 LP / 408.3 NG 347.4 LP / 340.4 NG 301 LP / 295 NG 150.5 LP / 147.5 NG	CB Size 450 400 350 175
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% Single phase or 208V & 240V 3-phase 480V 3-phase		190 225		
ENGINE FUEL CONSUMPTION (Natural Gas) (Propa Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load	ne)	Natural Gas (ft ³ /hr.) 130 371 713 994 1260	(gal/hr.) 1.42 4.06 7.81 10.88 13.80	cu ft/hr 52.3 149.4 287.4 400.4 507.8
ENGINE COOLING Air flow (inlet air including alternator and combus System coolant capacity Heat rejection to coolant Max. operating air temp. on radiator Max. ambient temperature	tion air) ft ³ /min US gal. BTU/hr. °C (°F) °C (°F)		5,500 4.5 342,000 60 (150) 50 (140)	
COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz	cfm		262	
SOUND EMISSIONS IN DBA db(A) @ 23 feet in exercise mode db(A) @ 23 feet at normal operating load			61 72	
EXHAUST Exhaust flow at rated output 60 Hz Exhaust temp. at muffler outlet	cfm °F		888 960	
ENGINE PARAMETERS Rated synchronous RPM HP at rated KW	60 Hz 60 Hz		2300 168	
	NS ery 10 °C above - °C very 10 °F above - °F		25 77	
	very 100 m above - m vry 1000 ft. above - ft.		183 600	

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

54.8



UNIT WEIGHT: Steel 2705 lbs., Aluminum 2531 lbs.

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