Standby Power Rating

70 kW 60 Hz

Liquid Cooled Gas Engine Generator Sets



Whisper-Test™

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

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



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	Flexible Disc
LOAD CAPACITY (STANDBY RATING)	70 kW
EXCITATION SYSTEM	Direct

NOTE: Generator rating and performance in accordance with ISO8528-5, 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
- 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 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)
- ATS selection

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

☐ INTERNAL FUNCTIONS:

- I²T 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	Generac
MODEL	V Type
CYLINDERS	10
DISPLACEMENT	6.8 Liter
BORE	
STROKE	4.17
COMPRESSION RATIO	9:1
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 Gent ink®	

ENGINE LUBRICATION SYSTEM

OIL PUMP	Gear
OIL FILTER	
CRANKCASE CAPACITY	

ENGINE COOLING SYSTEM

TYPE	
WATER PUMP	Belt driven
FAN SPEED	2030
FAN DIAMETER	22 inches
FAN MODE	Pusher

FUEL SYSTEM

Natural gas, propane vapor	FUEL TYPE
Down Draft	CARBURETOR
Standard	SECONDARY FUEL REGULATOR
Standard	FUEL SHUT OFF SOLENOID
11" - 14" H ₂ 0	OPERATING FUEL PRESSURE

ELECTRICAL SYSTEM

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

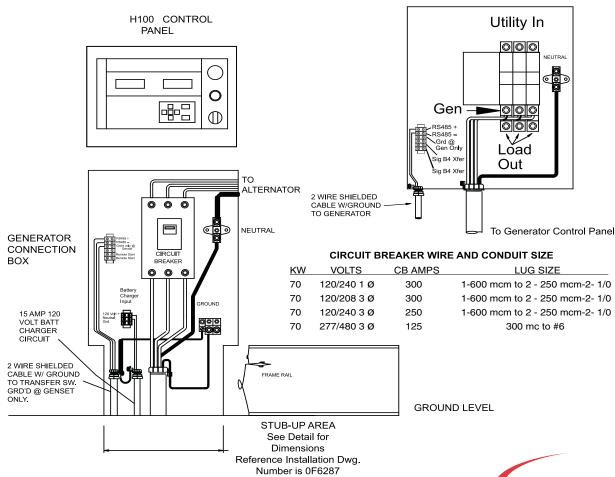


COMMERCIAL 70 kW commercial series

<u>OPERATING DATA</u>				
KW RATING			COMMERCIAL 70 kW 70	
KW KATING			70	
ENGINE SIZE		6.8 Liter V-10		
GENERATOR OUTPUT VOLTAGE/KW - 60 Hz 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 70 LP / 68 NG 70 LP / 68 NG 70 LP / 68 NG 70 LP / 68 NG	AMP 291.6 LP / 283.3 NG 243.1 LP / 236.2 NG 210.7 LP / 204.7 NG 105.3 LP / 102.4 NG	CB Size 300 300 250 125
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% Single phase or 208V & 240V 3-phase 480V 3-phase		145 160		
ENGINE FUEL CONSUMPTION (Natural Gas) (Propagation of the Consumption	ine)	Natural Gas Propane (ft ³ /hr.) (gal/hr.) cu ft/hr 110 1.20 44.2 260 2.85 104.9 499 5.46 200.9 696 7.62 280.4 1020 11.17 411		cu ft/hr 44.2 104.9 200.9 280.4
ENGINE COOLING Air flow (inlet air including alternator and combu System coolant capacity Heat rejection to coolant Max. operating air temp. on radiator Max. ambient temperature	stion air) ft ³ /min. US gal. BTU/hr. °C (°F) °C (°F)	5200 4.5 287,000 60 (150) 50 (140)		
COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz	cfm	205		
SOUND EMISSIONS IN DBA db(A) @ 23 feet in exercise mode db(A) @ 23 feet at normal operating load			61 65	
EXHAUST Exhaust flow at rated output 60 Hz Exhaust temp. at muffler outlet	cfm °F	557 890		
ENGINE PARAMETERS Rated synchronous RPM HP at rated KW	60 Hz 60 Hz		1800 110.7	
1.65% for e	NS rery 10 °C above - °C very 10 °F above - °F		25 77	
	very 100 m above - m ery 1000 ft. above - ft.	183 600		

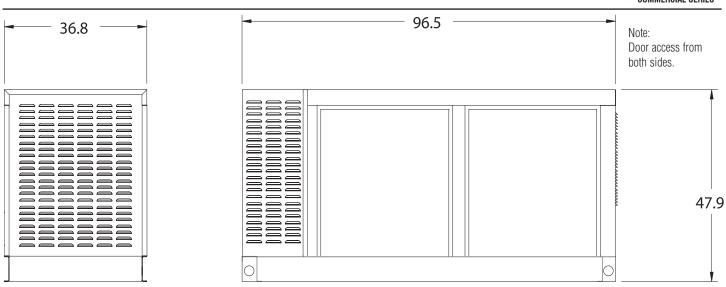
RATING: All three phases units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is 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.

Transfer Switch



INSTALLATION LAYOUT





UNIT WEIGHT: Steel 2185 lbs., Aluminum 2040 lbs.

GENERAC® POWER SYSTEMS, INC. • P.O. BOX 297 • WHITEWATER, WI 53190

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