Standby Power Rating

80 kW 60 Hz

Liquid Cooled Gas Engine Generator Sets



Whisper-Test™ Low Speed Exercise 64 dB(A) at 23 feet

GENERAC 4.6L 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	<5%
TELEPHONE INTERFERENCE FACTOR (TIF)	<50
ALTERNATOR OUTPUT LEADS 3 PHASE	4 wire
BEARINGS	Sealed Ball
COUPLING	Flex Disk
LOAD CAPACITY (STANDBY RATING)	80 kW
EXCITATION SYSTEM	Brushless

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

VOLTAGE REGULATOR

TYPE	Full Digital
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
- $\hfill\Box$ 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 exercise
- 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	8
DISPLACEMENT	4.6 Liter
BORE	3.55
STROKE	3.54
COMPRESSION RATIO	9.4:1
INTAKE AIR SYSTEM	
VALVE SEATS	Hardened
LIFTER TYPE	Hydraulic

GOVERNOR SPECIFICATIONS

TYPE	Electronic
FREQUENCY REGULATION	Isochronous
STEADY STATE REGULATION	± .25%
All functions are factory preset.	
Individual parameter adjustments can be made via GenLink®	

ENGINE LUBRICATION SYSTEM

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

ENGINE COOLING SYSTEM

TYPE	Closed
WATER PUMP	Belt driven
FAN SPEED	1600
FAN DIAMETER	22 inches
FAN MODE	Puller

FUEL SYSTEM

FUEL TYPE	Natural gas, vapor propane
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, 525CCA
SYSTEM VOLTAGE	12 Volts

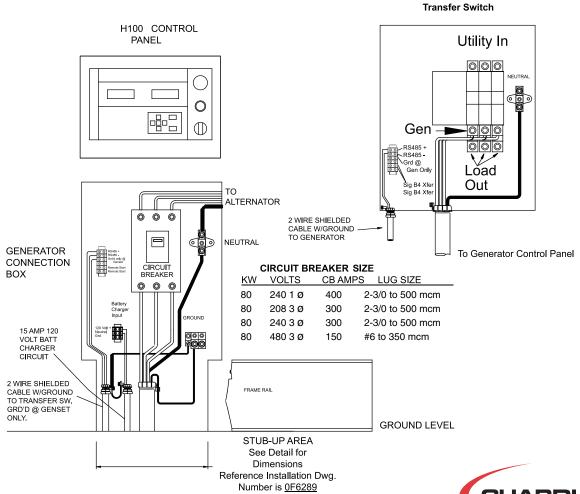


COMMERCIAL 80 kW

OPERATING DATA

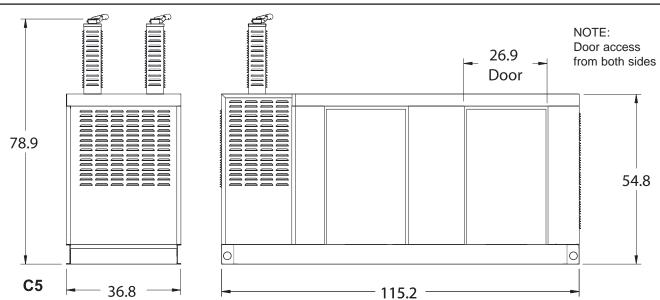
	COMMERCIAL 80 kW
KW RATING	80
ENGINE SIZE	4.6 Liter V-8
GENERATOR OUTPUT VOLTAGE/KW - 60Hz 120/240V, single phase, 1.0 pf 120/208V, 3-phase, 0.8 pf 120/240V, 3-phase, 0.8 pf 277/480V, 3-phase, 0.8 pf	KW AMP CB Size 80 LP / 78 NG 333.3 LP / 325 NG 400 80 LP / 78 NG 277.9 LP / 270.9 NG 300 80 LP / 78 NG 240.8 LP / 234.8 NG 300 80 LP / 78 NG 120.4 LP / 117.4 NG 150
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% Single phase or 208V & 240V 3-phase 480V 3-phase	160 185
ENGINE FUEL CONSUMPTION (Natural Gas) (Propane) Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load	Natural Gas Propane (ft ³ /hr.) (gal/hr.) cu ft/hr 131 1.45 53 312 3.45 126 600 6.64 241 835 9.25 336 1154 12.78 465
ENGINE COOLING Air flow (inlet air including alternator and combustion air) System coolant capacity Heat rejection to coolant Max. operating air temp. on radiator Max. ambient temperature Et 3/min. US gal. BTU/hr. ©C (°F) C (°F)	5,300 4.0 316,000 60 (150) 50 (140)
COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz cfm	250
SOUND EMISSIONS IN DBA db(A) @ 23 feet in exercise mode db(A) @ 23 feet at normal operating load	64 74
EXHAUST Exhaust flow at rated output 60 Hz Exhaust temp. at muffler outlet m³/min. (cfm) °F	720 840
ENGINE PARAMETERS Rated synchronous RPM 60 Hz HP at rated KW 60 Hz	3600 130
POWER ADJUSTMENT FOR AMBIENT CONDITIONS Temperature Deration 3% for every 10 °C above - °C 1.65% for every 10 °F above - °F	25 77
Altitude Deration 1% for every 100 m above - m 3% for every 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.



INSTALLATION LAYOUT





UNIT WEIGHT: Steel 2010 lbs., Aluminum 1836 lbs.

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

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