Standby Power Rating 22 kW 60 Hz

Liquid Cooled Gas Engine Generator Sets

Model Number: 05638 (Gray - Aluminum)



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

GENERAC 2.4L 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
- · Radiator drain extension
- · Battery charge alternator
- 2 Amp static battery charger
- Battery cables
- · Battery rack
- Fan and belt guards
- · Isochronous governor
- Flex fuel line
- Hour meter

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 feature 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 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



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)	22 kW
EXCITATION SYSTEM	Direct

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

VOLTAGE REGULATOR

Electronic	TYPE
Single Phase	SENSING
± 1%	
V/F Adjustable	FEATURES
Adjustable Voltage and Gain	
I ED 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

- ☐ SEVEN LED INDICATOR LIGHTS ☐ ADDITIONAL FUNCTIONS
 - System ready
 - •Low fuel pressure
 - Low battery
 - Low oil pressure
 - •High coolant temp/low coolant temp
 - Overspeed
 - Overcrank

- 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
 - Hour meter

■ 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	Inline 4
CYLINDERS	4
DISPLACEMENT	2.4 Liter
BORE	3.41
STROKE	3.94
COMPRESSION RATIO	8.5:1
INTAKE AIR SYSTEM	Naturally Aspirated
VALVE SEATS	
LIFTER TYPE	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	4 Quarts

ENGINE COOLING SYSTEM

TYPE	Closed
WATER PUMP	Belt driven
FAN SPEED	1980
FAN DIAMETER	17.75 inches
FAN MODE	Pusher

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



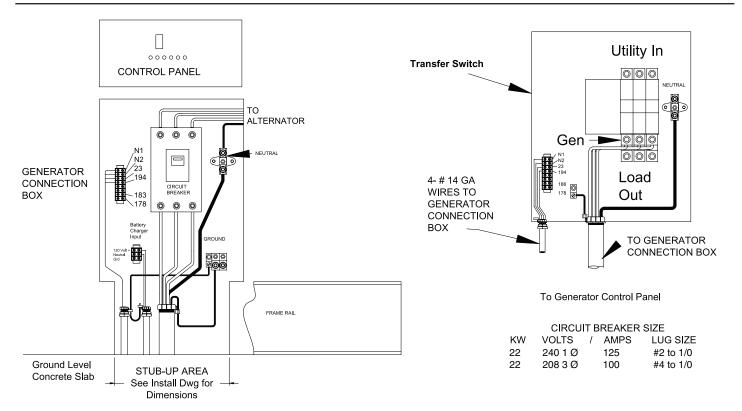
OPERATING DATA

KW DATING	S	TANDBY 22 kW	
KW RATING	22		
ENGINE SIZE	2.4	Liter 4 cyl. inline	
GENERATOR OUTPUT VOLTAGE/KW - 60Hz 120/240V, single phase, 1.0 pf	KW 22	AMP 92	CB Size 125
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% single phase		43	
ENGINE FUEL CONSUMPTION (Natural Gas) (Propane)	Natural Gas (ft³/hr.)	Pro (gal/hr.)	opane cu ft/hr
Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load	42 100 190 255 316	0.44 1.0 2.0 2.7 3.3	16 38 98 98 120
ENGINE COOLING Air flow (inlet air including alternator and combustion air)ft ³ /min. System coolant capacity US gal. Heat rejection to coolant BTU/hr. Max. operating air temp. on radiator °C (°F) Max. ambient temperature °C (°F)	2,400 2.5 99,000 60 (150) 50 (140)		
COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz cfm		68	
SOUND EMISSIONS IN DBA db(A) @ 23 feet in exercise mode db(A) @ 23 feet at normal operating load		61 70	
EXHAUST Exhaust flow at rated output 60 Hz cfm Exhaust temp. at muffler outlet °F		165 900	
ENGINE PARAMETERS Rated synchronous RPM 60 Hz HP at rated KW 60 Hz	1800 40		
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	
ENCLOSURE Material Color	Pľ	Aluminum MS 422 (Bisque)	

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.

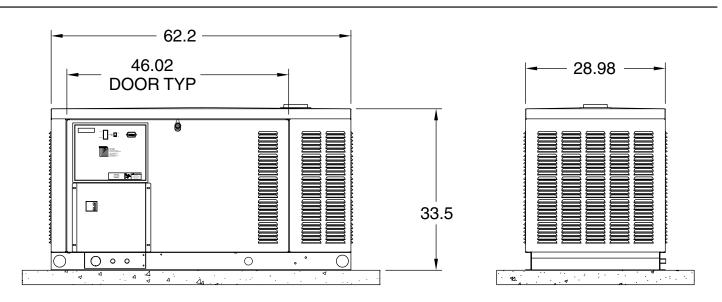
INTERCONNECTIONS

Standby 22 kW



Installation Drawing Ref. No. 0G0325

INSTALLATION LAYOUT



SEE INSTALL DWG 0G9370 FOR DETAILS

FRONT VIEW

WEIGHT: 895 lbs.

