

Standby Power Rating

27 kW 60 Hz

Liquid Cooled
Gas Engine
Generator Sets

Model Number: 05639 (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



APPLICATION & ENGINEERING DATA

Standby 27 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).....	22 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 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
 - System ready
 - Low fuel pressure
 - Low battery
 - Low oil pressure
 - High coolant temp/low coolant temp
 - Overspeed
 - Overcrank
- 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
- ADDITIONAL FUNCTIONS
 - 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

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	Hardened
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

Standby 27 kW

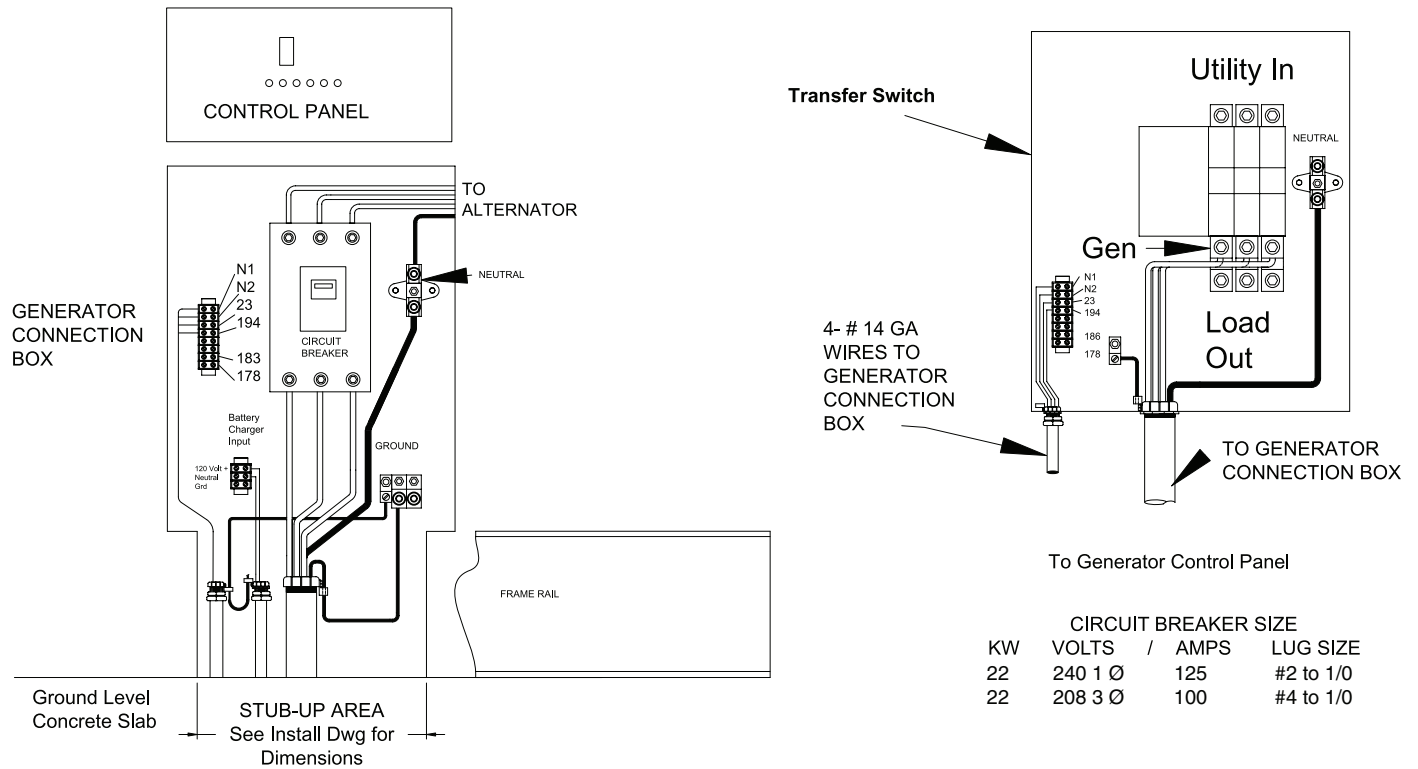
OPERATING DATA

		STANDBY 27 kW				
KW RATING		27				
ENGINE SIZE		2.4 Liter Inline 4				
GENERATOR OUTPUT VOLTAGE/KW - 60Hz		KW Nat. Gas	AMP	KW LPG	AMP	CB Size (Both)
120/240V, 1-phase, 1.0 pf		25	104	27	112	125
120/208V, 3-phase, 0.8 pf		25	87	27	94	100
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35%		43				
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35%	Single phase or 208 3-phase					
ENGINE FUEL CONSUMPTION (Natural Gas) (Propane)		Natural Gas (25 kW)		Propane (27 kW)		
		(ft ³ /hr.)		(gal/hr.)	cu ft/hr	
Exercise cycle		42		0.44	16	
25% of rated load		108		1.2	44	
50% of rated load		197		2.2	81	
75% of rated load		287		3.2	118	
100% of rated load		359		4.1	147	
ENGINE COOLING						
Air flow (inlet air including alternator and combustion air)	ft ³ /min.	2,400				
System coolant capacity	US gal.	2.5				
Heat rejection to coolant	BTU/hr.	120,000				
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	68				
SOUND EMISSIONS IN DBA						
Exercising at 7 meters		61				
Normal operation at 7 meters		70				
EXHAUST						
Exhaust flow at rated output 60 Hz	cfm	130				
Exhaust temp. at muffler outlet	°F	900				
ENGINE PARAMETERS						
Rated synchronous RPM	60 Hz	1800				
HP at rated KW	60 Hz	40				
POWER ADJUSTMENT FOR AMBIENT CONDITIONS						
Temperature Deration						
3% for every 10 °C above - °C		25				
1.65% for every 10 °F above - °F		77				
Altitude Deration						
1% for every 100 m above - m		183				
3% for every 1000 ft. above - ft.		600				
ENCLOSURE						
Material		Aluminum				
Color		PMS 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.

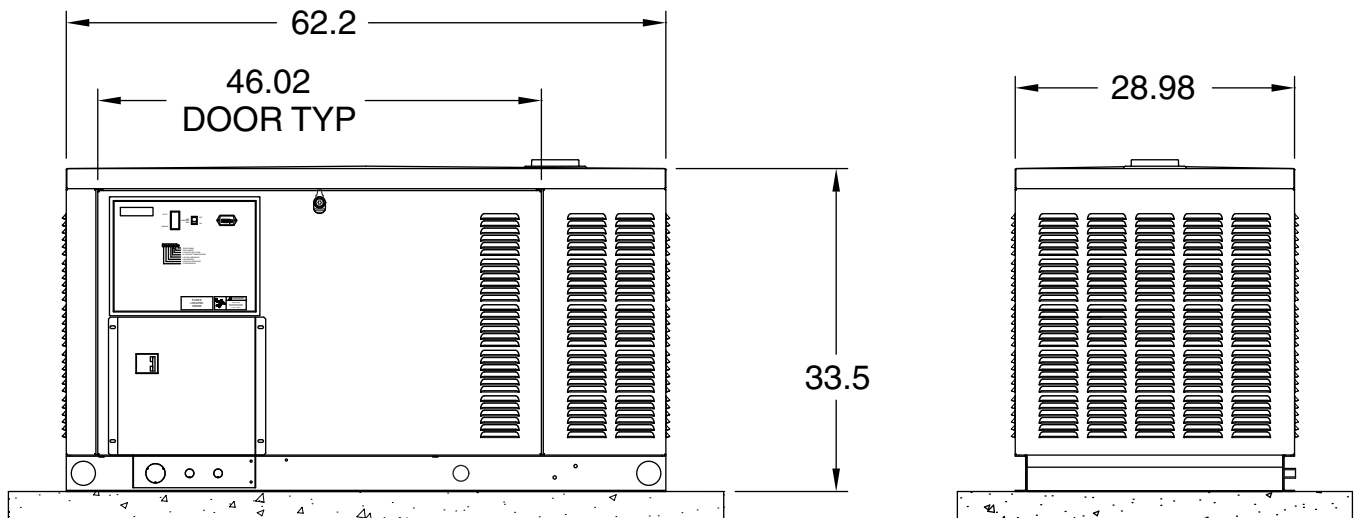
INTERCONNECTIONS

Standby 27 kW



Installation Drawing Ref. No. 0G0325

INSTALLATION LAYOUT



SEE INSTALL DWG 0G9370 FOR DETAILS

FRONT VIEW

WEIGHT: 891 lbs.



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