Standby Power Rating 30 kW 60 Hz

Liquid Cooled Gas Engine Generator Sets

Model Number: 05402 (Tan - Steel)

Whisper-Test™

Low Speed Exercise 62 dB(A) at 23 feet

GENERAC 1.6L 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
- 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 rack and battery cables
- Fan and belt guards
- · Isochronous governor

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
- State of the art digital control system with R-Series digital control panel

- High flow low noise factory engineered exhaust system
- 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 F
STATOR INSULATION	Class F
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)	30 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	
REGULATION	
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 F rated at 130 °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

ENGINE SPECIFICATIONS

MAKE	
CYLINDERS	
DISPLACEMENT	1.6 Liter
BORE	3.15
STROKE	3.13
COMPRESSION RATIO	9.75:1
INTAKE AIR SYSTEM	Naturally Aspirated
VALVE SEATS	Replaceable
LIFTER TYPE	Hydraulic

GOVERNOR SPECIFICATIONS

TYPE	Electronic
FREQUENCY REGULATION	Isochronous
STEADY STATE REGULATION	± 0.25

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	2550
FAN DIAMETER	15 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

☐ 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

ELECTRICAL SYSTEM

BATTERY CHARGE ALTERNATOR	12V 30 Amp
STATIC BATTERY CHARGER	2 Amp
RECOMMENDED BATTERY	Group 26, 525CCA
	·
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).





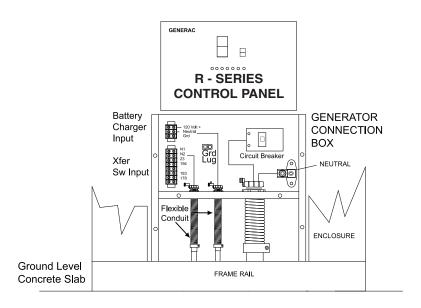
OPERATING DATA

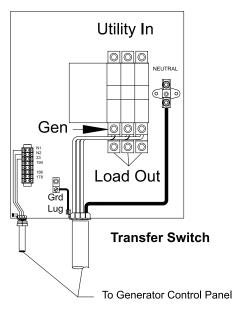
W RATING DATA		STANDBY 30 kW 30 LP / 29 NG		
ENGINE SIZE		1.6 Liter 4 cyl. inline		
GENERATOR OUTPUT VOLTAGE/KW - 60Hz 120/240V, single phase, 1.0 pf		KW 30 LP / 29 NG	AMP 125 LP / 120.8 NG	CB Size 150
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35%	single phase		56	
ENGINE FUEL CONSUMPTION (Natural Gas) Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load	(Propane)	Natural Gas (ft ³ /hr.) 60 193 300 415 525	(gal/hr.) 0.65 2.1 3.3 4.5 5.7	opane cu ft/hr 24 76 120 165 209
ENGINE COOLING Air flow (inlet air including alternator and concepts of System coolant capacity) Heat rejection to coolant Max. operating air temp. on radiator Max. ambient temperature	ombustion air) ft ³ /min. US gal. BTU/hr. °C (°F) °C (°F)	1,800 2.0 131,000 60 (150) 50 (140)		
COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz	cfm	95		
SOUND EMISSIONS IN DBA db(A) @ 23 feet in exercise mode db(A) @ 23 feet at normal operating load		62 75		
EXHAUST Exhaust flow at rated output 60 Hz Exhaust temp. at muffler outlet	cfm °F	260 1025		
ENGINE PARAMETERS Rated synchronous RPM HP at rated KW	60 Hz 60 Hz	3600 48		
	DITIONS for every 10 °C above - °C for every 10 °F above - °F	25 77		
	for every 100 m above - m or 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 fuelBtu content, ambient temperature, altitude, engine power and condition, etc.



C1 Enclosure 18 - 30 kW



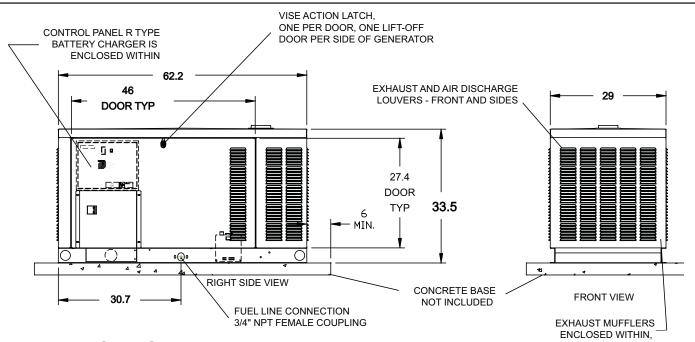


CIRCUIT BREAKER SIZE

<u>KW</u> <u>VOLTS</u> / <u>AMPS</u> <u>LUG SIZE</u>

30 240 1ø 150 #6-300 mcm

INSTALLATION LAYOUT



UNIT WEIGHT: Steel 935 lbs.

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

WEBSITE: www.guardiangenerators.com