

Standby Power Rating

30 kW 60 Hz

Liquid Cooled
Gas Engine
Generator Sets

Model Number: 05402 (Tan - Steel)



WHISPER-TEST™



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	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 F rated at 130 °C rise
- All models are fully prototyped tested

CONTROL PANEL FEATURES

- | | |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> SEVEN LED INDICATOR LIGHTS <ul style="list-style-type: none"> • System ready • Low fuel pressure • Low battery • Low oil pressure • High coolant temp/low coolant temp • Overspeed • Overcrank <input type="checkbox"/> INTERNAL FUNCTIONS: <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> <input type="checkbox"/> ADDITIONAL FUNCTIONS <ul style="list-style-type: none"> • 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 |
|--|---|

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).

ENGINE SPECIFICATIONS

MAKE	Generac
MODEL.....	In line
CYLINDERS	4
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

ELECTRICAL SYSTEM

BATTERY CHARGE ALTERNATOR.....	12V 30 Amp
STATIC BATTERY CHARGER	2 Amp
RECOMMENDED BATTERY	Group 26, 525CCA
SYSTEM VOLTAGE.....	12 Volts

STANDBY 30 kW



OPERATING DATA

		STANDBY 30 kW		
KW RATING		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) (Propane)		Natural Gas (ft ³ /hr.)	Propane (gal/hr.)	cu ft/hr
Exercise cycle		60	0.65	24
25% of rated load		193	2.1	76
50% of rated load		300	3.3	120
75% of rated load		415	4.5	165
100% of rated load		525	5.7	209
ENGINE COOLING				
Air flow (inlet air including alternator and combustion air)	ft ³ /min.	1,800		
System coolant capacity	US gal.	2.0		
Heat rejection to coolant	BTU/hr.	131,000		
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	95		
SOUND EMISSIONS IN DBA				
db(A) @ 23 feet in exercise mode		62		
db(A) @ 23 feet at normal operating load		75		
EXHAUST				
Exhaust flow at rated output 60 Hz	cfm	260		
Exhaust temp. at muffler outlet	°F	1025		
ENGINE PARAMETERS				
Rated synchronous RPM	60 Hz	3600		
HP at rated KW	60 Hz	48		
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		

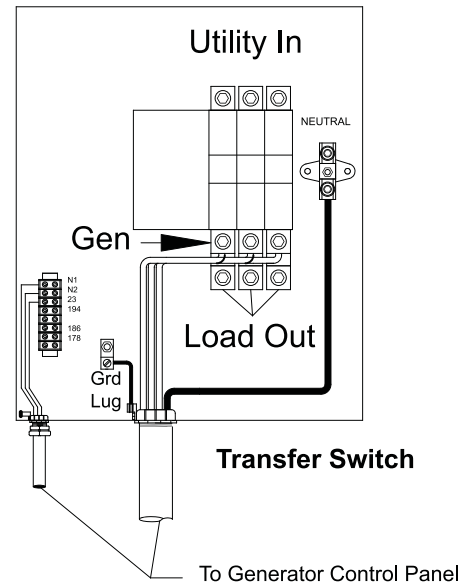
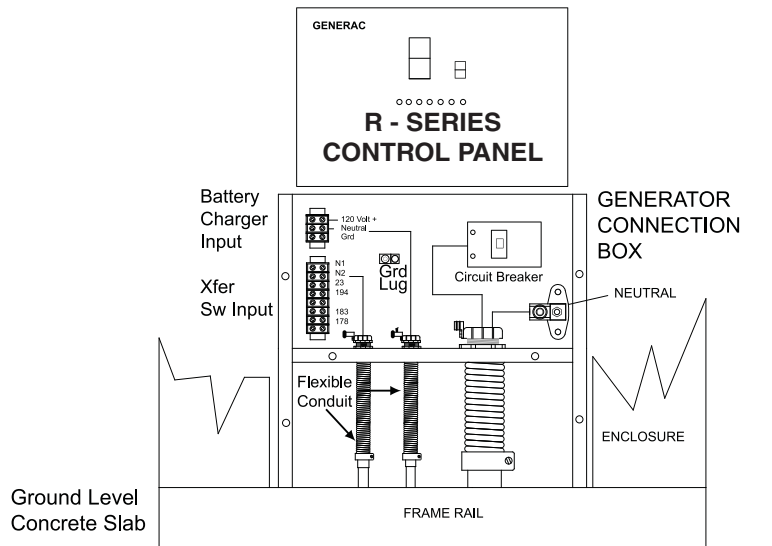
RATING: All three phases units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is 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 30 kW



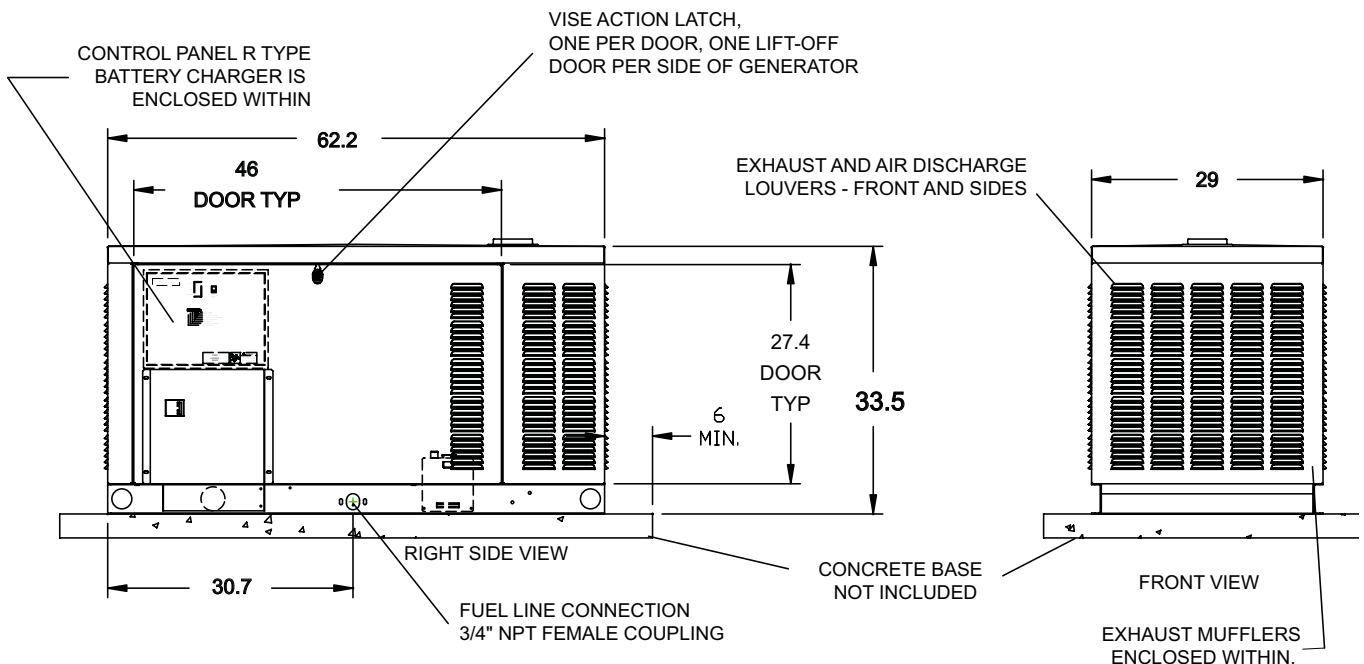
C1 Enclosure 18 - 30 kW



CIRCUIT BREAKER SIZE

KW	VOLTS	AMPS	LUG SIZE
30	240 1 ϕ	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

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>