QT048

Liquid Cooled Gas Engine Generator Sets

Standby Power Rating 48 kW 60 Hz



GENERAC 4.2L ENGINE

Naturally Aspirated Gaseous Fueled Meets 2009 EPA Emission Regulations

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
- Quiet 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 R100 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)	48 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	
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 ☐ 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	V6
CYLINDERS	6
DISPLACEMENT	4.2 Liter
BORE (inches)	3.81
STROKE (inches)	3.74
COMPRESSION RATIO	9.3:1
INTAKE AIR SYSTEM	Naturally Aspirated
VALVE SEATS (Int. & Exh.)	Precision ground and hardened
LIFTER TYPE	Roller, 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	6 Quarts

ENGINE COOLING SYSTEM

TYPE	Pressurized Closed
WATER PUMP FLOW	10.8 gal/min
FAN SPEED	•
FAN DIAMETER	22 inches
FAN MODE	Puller

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 24F, 525CCA
SYSTEM VOLTAGE	12 Volts

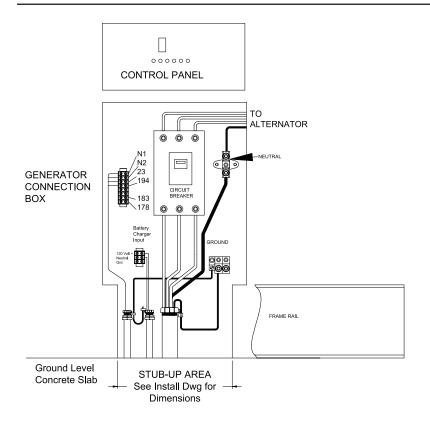


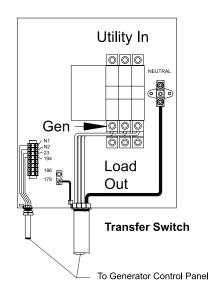
OPERATING DATA

				QTO)48	
KW RATING ENGINE SIZE		48 4.2 Liter				
GENERATOR OUTPUT VOLTAGE/KW - 60Hz 120/240V, 1-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 - LP 48 48 48 48	Amps 200 166 144 72	kW - NG 46 46 46 46	Amps 192 160 138 69	CB Size 200 175 150 80
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% Single phase or 208 3-phase 480V 3-phase				10 11	-	
ENGINE FUEL CONSUMPTION (Natural Gas) (Propane) Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load ENGINE COOLING Air flow (inlet air including alternator and combustion air) System coolant capacity Heat rejection to coolant Max. operating air temp. on radiator "C ("F) Max. ambient temperature		Natura (ft³/ 8/ 20 37 51	hr.) 8 05 70 16	(gal. 0.9 2.2 4.0 5.0	94 23 03 52	cu ft/hr 34.4 81 147 204 261
				2,4 3. 165, 60 (1 50 (1	0 000 50)	
COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz	cfm			23	5	
SOUND EMISSIONS IN DBA Exercising at 7 meters Normal operation at 7 meters				60 65		
EXHAUST Exhaust flow at rated output 60 Hz Exhaust temp. at muffler outlet	cfm °F			39 110	_	
ENGINE PARAMETERS Rated synchronous RPM HP at rated KW	60 Hz 60 Hz			180 75		
POWER ADJUSTMENT FOR AMBIENT CONDITED TEMPERATURE Deration 3% for every 10 °C and the state of	above - °C			28 77		
1% for every 100 m 3% for every 1000 ft.				18 60		

RATING: All three phase 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, BS5514, and DIN6271. Maximum wattage and current are subject to and limited by such factors as fuel Btu content, ambient temperature, altitude, engine power and condition. Design and specifications are subject to change without notice.

KW rating is based on LPG Fuel and may derate with natural gas.



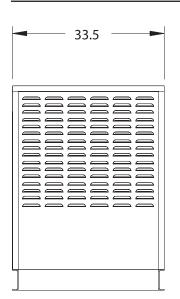


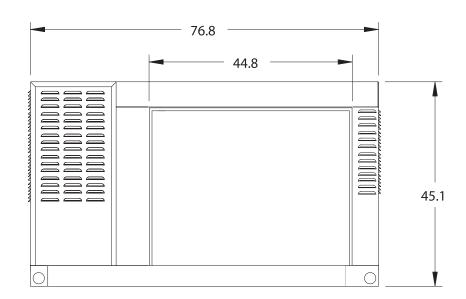
CIRCUIT BREAKER SIZE

KW	VOLTS	/ AMPS	LUG SIZE
48/46	240 1ø	200	#6 to 300 mcm
48/46	208 3ø	175	#6 to 300 mcm
48/46	240 3ø	150	#6 to 300 mcm
48/46	480 3ø	80	#6 to 300 mcm

Installation Drawing Ref. No. 0G5868

INSTALLATION LAYOUT





WEIGHT: 1740 lbs.

