Standby Power Rating 30 kW 60 Hz

Liquid Cooled Gas Engine Generator Sets



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
- Flex fuel line pigtail

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



APPLICATION & ENGINEERING DATA

COMMERCIAL 30 kW

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
	± 1%
FEATURES	V/F Adjustable
	Adjustable Voltage and Gain
	L ED Indicators

GENERATOR FEATURES

- Revolving field heavy duty generator
- Directly connected to the engine
- ☐ Operating temperature rise 120 °C above a 40 °C ambient
- $\hfill\Box$ Insulation is Class F rated at 130 $^{\circ}\text{C}$ 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

■ ADDITIONAL FUNCTIONS

- Utility sensing
- · Delay on utility failure for engine start
- · Engine warm-up before transfer

- Exerciser not set

- Delay to retransfer to utility
- Engine cooldown timer

☐ 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	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	lsochronous
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

Natural gas, propane vapor	FUEL TYPE
Down Draft	CARBURETOR
Standard	SECONDARY FUEL REGULATOR
Standard	FUEL SHUT OFF SOLENOID
5" - 14" H ₂ O	OPERATING FUEL PRESSURE

ELECTRICAL SYSTEM

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

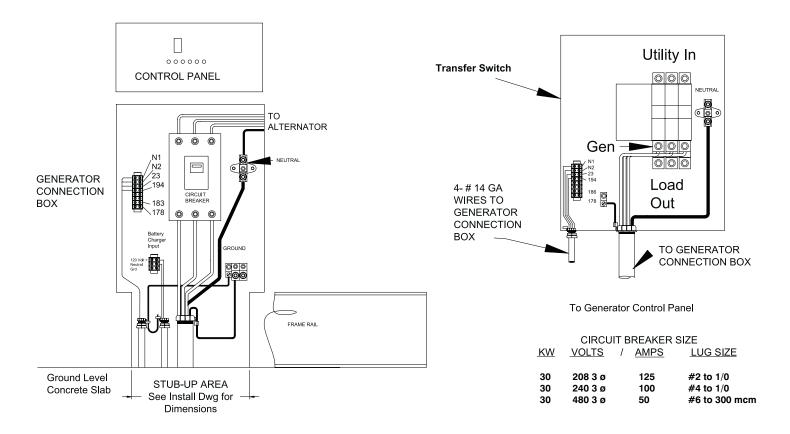


COMMERCIAL 30 kW

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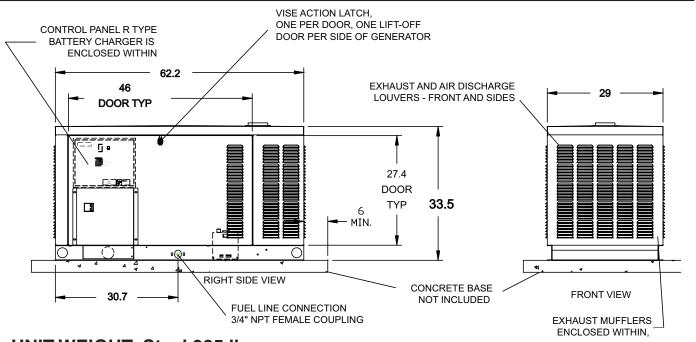
UPERATING DATA		COMMERCIAL 30 kW				
KW RATING		30 LP / 29 NG				
ENGINE SIZE			1.6 Liter 4 cyl. inline			
GENERATOR OUTPUT VOLTAGE/KW - 60 120/208V, three phase, 0.8 pf 120/240V, three phase, 0.8 pf 277/480V, three phase, 0.8 pf	Hz	KW 30 LP / 29 NG 30 LP / 29 NG 30 LP / 29 NG	AMP 104.2 LP / 100.7 NG 90.3 LP / 87.3 NG 45.1 LP / 43.6 NG	CB Size 125 100 50		
GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% 208 or 240V three phase 480V three phase			56 62			
ENGINE FUEL CONSUMPTION (Natural Gastron Exercise cycle 25% of rated load 50% of rated load 75% of rated load 100% of rated load 100% of rated load	as) (Propane)	Natural Gas (ft ³ /hr.) 60 193 300 415 525	Pro (gal/hr.) 0.65 2.1 3.3 4.5 5.7	pane cu ft/hr 24 76 120 165 209		
ENGINE COOLING Air flow (inlet air including alternator an System coolant capacity Heat rejection to coolant Max. operating air temp. on radiator Max. ambient temperature	d combustion 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 lo	oad		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			
	ONDITIONS % for every 10 °C above - °C 5% for every 10 °F above - °F		25 77			
	1% for every 100 m above - m % for 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 fuel Btu content, ambient temperature, altitude, engine power and condition, etc.



INSTALLATION LAYOUT





UNIT WEIGHT: Steel 935 lbs.

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