Standby Power Rating

30 kW 60 Hz

Liquid Cooled Gas Engine Generator Sets



Quiet-Test Mode For Low Noise Exercise - 60 dB(A) at 23 feet

GENERAC 3.0L ENGINE

Naturally Aspirated Gaseous Fueled

UL 2200 Listed

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 and battery cables
- Battery rack
- Fan and belt guards
- · Isochronous governor

FEATURES

- Innovative design and fully prototype tested
- UL2200 Listed
- Solid state frequency compensated digital 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
- R100 digital control panel

- State of the art digital control 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 H |
| STATOR INSULATION | Class H |
| TOTAL HARMONIC DISTORTION | <3.5% |
| 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 | |
| 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

Overspeed shutdown

Low battery voltage

No utility sensing

Low fuel pressure

High coolant temperature shutdown

Engine warmup before transfer

Delay to retransfer to utility

☐ SIX LED INDICATOR LIGHTS:

Overcrank shutdown Low coolant level shutdown Low oil pressure shutdown System ready for operation Exerciser not set (in auto mode only) Delay on utility failure for engine start

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 | |
|-------------------|---------------------|
| CYLINDERS | 6 |
| DISPLACEMENT | 3.0 Liter |
| BORE | 3.55 |
| STROKE | 3.1 |
| COMPRESSION RATIO | 9.3:1 |
| INTAKE AIR SYSTEM | Naturally Aspirated |
| VALVE SEATS | Hardened |
| LIFTER TYPE | Hydraulic |

GOVERNOR SPECIFICATIONS

| TYPE | lectronic |
|-------------------------|-----------|
| FREQUENCY REGULATION | ± 1% |
| STEADY STATE REGULATION | ± 1/2% |
| ADJUSTMENTS | |
| Speed | Yes |
| Droop | Yes |

ENGINE LUBRICATION SYSTEM

| OIL PUMP | Gear |
|--------------------|---------------------|
| OIL FILTER | Full flow cartridge |
| CRANKCASE CAPACITY | 4 Quarts |

ENGINE COOLING SYSTEM

| TYPE | Closed |
|--------------|-------------|
| WATER PUMP | Belt driven |
| FAN SPEED | 1800 |
| FAN DIAMETER | 18 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

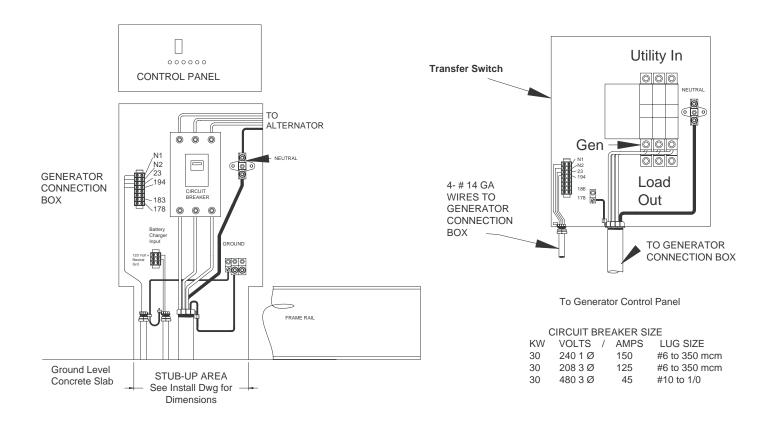
| BATTERY CHARGE ALTERNATOR | 12V 30 Amp |
|---------------------------|------------|
| STATIC BATTERY CHARGER | 2 Amp |
| RECOMMENDED BATTERY | 24F 625CCA |
| SYSTEM VOLTAGE | 12 Volts |



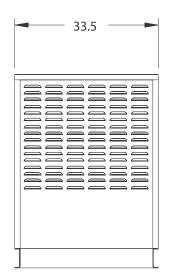
OPERATING DATA

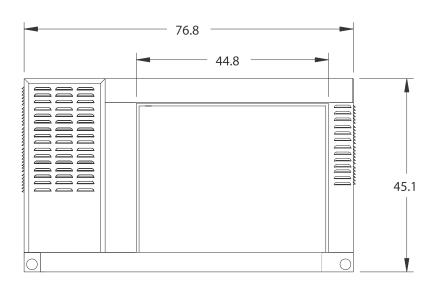
| KW RATING | COMMERCIAL 30 kW 30 |
|--|---|
| | |
| ENGINE SIZE | 3.0 Liter V-6 |
| GENERATOR OUTPUT VOLTAGE/KW - 60Hz 120/240V, 1-phase, 1.0 pf 120/208V, 3-phase, 3.0 pf 277/480V, 3-phase, 3.0 pf | KW AMP CB Size 30 125 150 30 104 125 30 45 50 |
| GENERATOR LOCKED ROTOR KVA AVAILABLE @ VOLTAGE DIP OF 35% Single phase or 208 3-phase 480V 3-phase | 60 70 |
| ENGINE FUEL CONSUMPTION (Natural Gas) Exercise cycle ft³/hr. 25% of rated load ft³/hr. 50% of rated load ft³/hr. 75% of rated load ft³/hr. 100% of rated load ft³/hr. | 70 111 214 298 412 |
| ENGINE COOLING Air flow (inlet air including alternator and combustion air) ft³/min. Coolant capacity US gal. Heat rejection to coolant BTU/hr. Max. operating air temp. on radiator °C (°F) Max. ambient temperature °C (°F) | 2460 2.5 115,000 60 (150) 50 (140) |
| COMBUSTION AIR REQUIREMENTS Flow at rated power 60 Hz cfm | 92 |
| SOUND EMISSIONS IN DBA Exercising at 7 meters Full load at 7 meters | 60 73 |
| EXHAUST Exhaust flow at rated output 60 Hz cfm Exhaust temp. at muffler outlet °F | 240 925 |
| ENGINE PARAMETERS Rated synchronous RPM 60 Hz HP at rated KW 60 Hz | 1800 48 |
| POWER ADJUSTMENT FOR AMBIENT CONDITIONS Temperature Deration 3% for every 10 °C above - °C 1.65% for every 10 °F above - °F Altitude Deration 1% for every 100 m above - m 3% for every 1000 ft. above - ft. | 25 77 183 600 |

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



INSTALLATION LAYOUT





UNIT WEIGHT 1431 LBS.

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

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