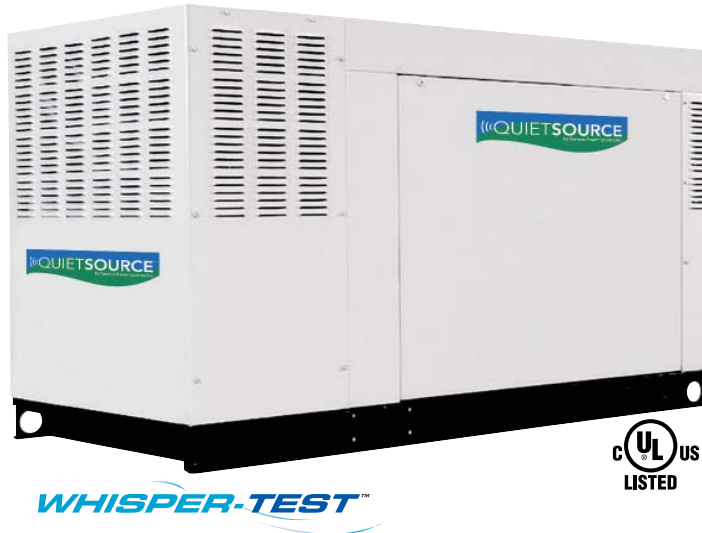


# Standby Power Rating

## 35 kW 60 Hz

Liquid Cooled  
Gas Engine  
Generator Sets

Model Number: 05420 (Gray - Aluminum)



**Whisper-Test™**  
Low Speed Exercise  
60 dB(A) at 23 feet

**GENERAC 4.2L 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™* feature 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 R-Series 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



# APPLICATION & ENGINEERING DATA

Standby 35 kW

## 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).....       | 35 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<br>Adjustable Voltage and Gain<br>LED Indicators |

## GENERATOR FEATURES

- Revolving field heavy duty generator
- Directly connected to the engine
- Operating temperature rise 120 °C above a 25 °C ambient
- Insulation is Class H rated at 150 °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
- 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
- ADDITIONAL FUNCTIONS
  - 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 .....             | Generac                       |
| MODEL.....             | V-6                           |
| CYLINDERS.....         | 6                             |
| DISPLACEMENT.....      | 4.2 Liter                     |
| BORE .....             | 3.81                          |
| STROKE.....            | 3.8                           |
| COMPRESSION RATIO..... | 9.4:1                         |
| INTAKE AIR SYSTEM..... | Naturally Aspirated           |
| VALVE SEATS .....      | Precision ground and hardened |
| LIFTER TYPE.....       | Roller, Hydraulic             |

## GOVERNOR SPECIFICATIONS

|                              |             |
|------------------------------|-------------|
| TYPE .....                   | Electronic  |
| FREQUENCY REGULATION.....    | Isochronous |
| STEADY STATE REGULATION..... | ± 0.25      |
| ADJUSTMENTS FOR:             |             |
| Speed .....                  | Yes         |
| Droop.....                   | Yes         |

## ENGINE LUBRICATION SYSTEM

|                         |                             |
|-------------------------|-----------------------------|
| OIL PUMP .....          | Gear                        |
| OIL FILTER.....         | Full flow spin-on cartridge |
| CRANKCASE CAPACITY..... | 5 Quarts                    |

## ENGINE COOLING SYSTEM

|                      |                    |
|----------------------|--------------------|
| TYPE .....           | Pressurized Closed |
| WATER PUMP FLOW..... | 10.8 gal/min       |
| FAN SPEED .....      | 1300               |
| 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 <sub>2</sub> O  |

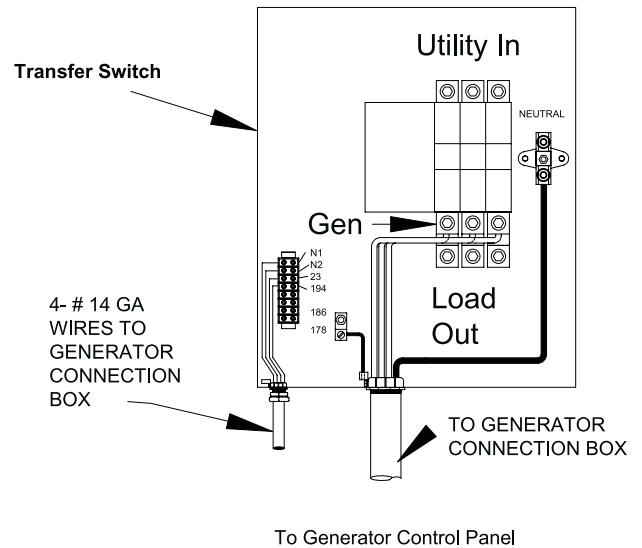
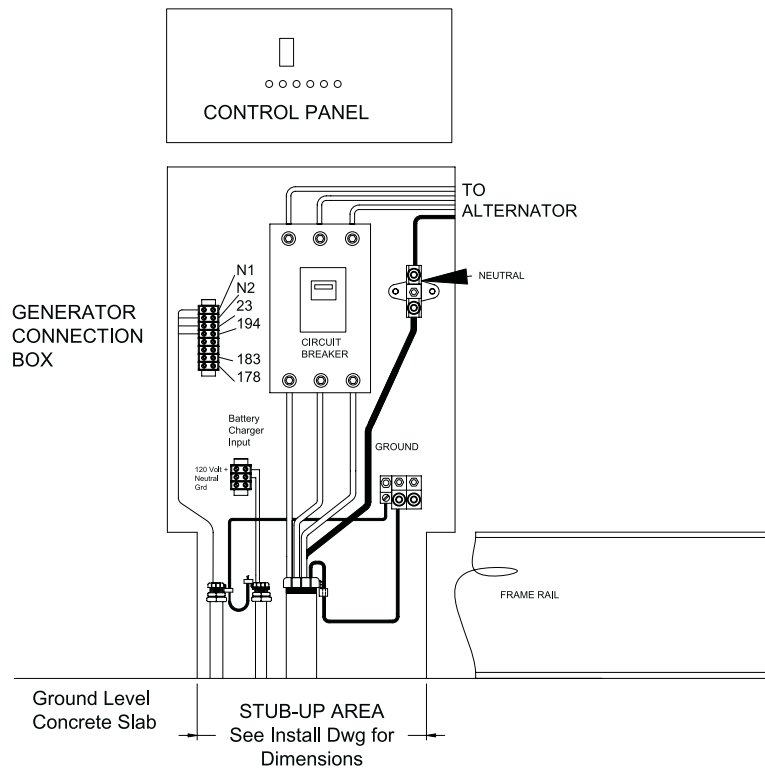
## ELECTRICAL SYSTEM

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



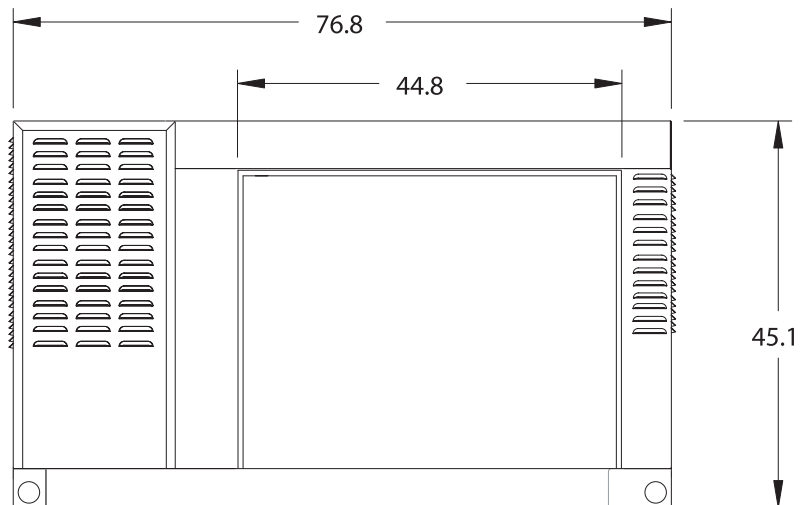
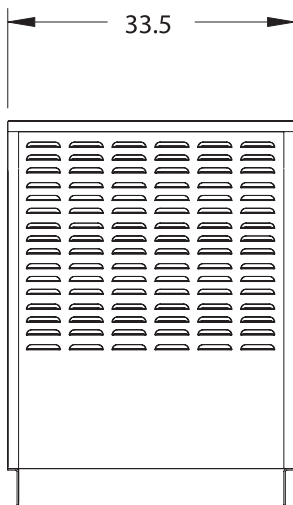
# INTERCONNECTIONS

Standby 35 kW



| CIRCUIT BREAKER SIZE |         |      |               |
|----------------------|---------|------|---------------|
| KW                   | VOLTS   | AMPS | LUG SIZE      |
| 35                   | 240 1 Ø | 175  | #6 to 300 mcm |

# INSTALLATION LAYOUT



**UNIT WEIGHT: Aluminum 1683 lbs.**

**GENERAC® POWER SYSTEMS, INC. • P.O. BOX 297 • WHITEWATER, WI 53190**  
 WEBSITE: [www.guardiangenerators.com](http://www.guardiangenerators.com)