

## XG Protector® Series

## Protector® Series Standby Generators Liquid-Cooled Gaseous Engine

1 of 12

### STANDARD FEATURES

- 1-Phase or Configurable 3-Phase Voltage Output Models<sup>1</sup>
- Power Zone® 410 Controller, NFPA 110 System Control Capable
- Circuit Breaker in 1-Phase Models & Molded Case Switch in 3-Phase Models
- Padlockable Control Panel Cover with UV Protection
- Cellular Connectivity with Wi-Fi® backup for Mobile Link™ and Fleet<sup>2</sup>
- Quiet Operation including Selectable Low-Speed Exercise Quiet Test™
- Corrosion Resistant Aluminum Enclosure, Electro-Galvanized Baseframe Components, and Stainless Steel Exhaust System
- 5 Year/2,000 Hour Limited Warranty
- High Motor-Starting & Surge Capacity
- ±1% Digital Voltage Regulation
- <5% Total Harmonic Distortion Power Quality
- Fuel Efficiency
- Controller-Selectable Fuel Type - Propane or Natural Gas
- Single-Side Regular Maintenance Access
- EPA Emissions Certified
- CA & MA Emissions Compliant 40, 48, 60, & 80 kW Models Available
- UL 2200 Listed
- 32, 40, & 48 kW models SwRI listed and labeled allowing installation as close as 18 in (457 mm) to a structure<sup>3</sup>
- 145 mph (233 km/h) Wind Speed Rating<sup>4</sup>

1 - 1-phase 48 kW models for the US and Canada include ecobee by Generac Smart Home Thermostat as standard. See specification sheet A0008700859 for additional information by searching for XG04845ANAX or XG04845ANAC product information on Generac.com.

2 - Cellular service for the US, Canada, and other supported countries using the Generac Generator Connectivity Accessory, Cellular (GGCAC). Cellular is the primary mode for connectivity with Wi-Fi as a secondary mode when a cellular connection is not possible.

3 - Must be located away from doors, windows, and fresh air intakes and in accordance with all applicable codes and regulations.

4 - Requires correctly prepared concrete pad and anchoring system.

### OPTIONAL FIELD-INSTALLABLE FEATURES

Available as field-installable kits

- 3-Phase Voltage Configuration Cartridges (VCC)
- 3-Phase Circuit Breakers (3-Phase Models Include a Molded Case Switch)
- Generator Ready-Status Indicator
- Push-Button Emergency Stop
- NFPA 110 System Control & Remote Annunciation
- Cold Weather Operation Heaters
- Baseframe Blockoff
- Engine Fluid Containment
- Exhaust Diverter

### STANDBY POWER RATING

Model XG03245 – 32 kW, 60 Hz Emergency Standby Power Generator  
 Model XG04045 – 40 kW, 60 Hz Emergency Standby Power Generator  
 Model XG04845 – 48 kW, 60 Hz Emergency Standby Power Generator  
 Model XG06045 – 60 kW, 60 Hz Emergency Standby Power Generator  
 Model XG08045 – 80 kW, 60 Hz Emergency Standby Power Generator



Product may vary from above image depending on model.



QUIET-TEST™

GENERAC

Mobile Link™

EPA Emissions Certified  
 CA & MA Emissions Compliant 40, 48, 60, and 80 kW Models Available

## FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **MOBILE LINK® CONNECTIVITY:** Standard with the Generac Liquid-Cooled XG Protector Series home standby generators, Mobile Link Cellular Connectivity with Wi-Fi backup allows users to monitor the status of their generator from anywhere using a smartphone, tablet, or PC. Easily access real-time operating status, maintenance alerts, and generator readiness. Users can also connect their account to an authorized generator service for proactive support and streamlined service. With Mobile Link, users can see their generator is ready before the next power outage.
- **ONE CONFIGURABLE 3-PHASE VOLTAGE MODEL:** Each XG power output 3-phase model can be configured for 208/120, 240/120, or 480/277 V 3-phase output. Every 3-phase XG model is configured at the factory for 208/120 V using a Voltage Configuration Cartridge (VCC). The 3-phase voltage can be changed by the generator installer using a different VCC available as an accessory. The single-piece VCC makes installation simple and error-proof eliminating the need to consult wiring diagrams or require skilled labor. Fewer models with more possibilities.

- **TRUE POWER™ ELECTRICAL TECHNOLOGY:** Superior harmonics and sine wave form produce less than 5% Total Harmonic Distortion for utility quality power. This allows confident operation of sensitive electronic equipment and micro-chip based appliances, such as variable speed HVAC systems.
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at ±1%.
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive service network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES:** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is the GENERAC product line is offered with its own transfer systems and controls for total system compatibility.

## GENERATOR SPECIFICATIONS

### GENERATOR OUTPUT

#### PROPANE

| Voltage           | XG03245    |             | XG04045    |             | XG04845    |             | XG06045    |             | XG08045    |             |
|-------------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
|                   | Power (kW) | Current (A) | Power (kW) | Current (A) | Power (kW) | Current (A) | Power (kW) | Current (A) | Power (kW) | Current (A) |
| 120/240 V 1-Phase | 32         | 133         | 40         | 167         | 48         | 200         | 60         | 250         | 75         | 312         |
| 208/120 V 3-Phase | 32         | 111         | 40         | 139         | 48         | 167         | 60         | 208         | 75         | 260         |
| 240/120 V 3-Phase | 32         | 96          | 40         | 120         | 48         | 144         | 60         | 180         | 75         | 226         |
| 480/277 V 3-Phase | 32         | 48          | 40         | 60          | 48         | 72          | 60         | 90          | 75         | 113         |

#### NATURAL GAS

| Voltage           | XG03245    |             | XG04045    |             | XG04845    |             | XG06045    |             | XG08045    |             |
|-------------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
|                   | Power (kW) | Current (A) | Power (kW) | Current (A) | Power (kW) | Current (A) | Power (kW) | Current (A) | Power (kW) | Current (A) |
| 120/240 V 1-Phase | 32         | 133         | 40         | 167         | 48         | 200         | 60         | 250         | 80         | 333         |
| 208/120 V 3-Phase | 32         | 111         | 40         | 139         | 48         | 167         | 60         | 208         | 80         | 278         |
| 240/120 V 3-Phase | 32         | 96          | 40         | 120         | 48         | 144         | 60         | 180         | 80         | 241         |
| 480/277 V 3-Phase | 32         | 48          | 40         | 60          | 48         | 72          | 60         | 90          | 80         | 120         |

Emergency Standby Power (ESP) Rating: Standby ratings apply to installations served by a reliable utility source. The ESP rating is applicable to varying loads for the duration of a power outage. The average power output over 24 hours shall not exceed 70% of the ESP rating.

### ALTERNATOR SYSTEM

|                                                  |         | XG03245                                                              | XG04045                                                              | XG04845                                                              | XG06045                                                              | XG08045                                                              |
|--------------------------------------------------|---------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|
| Voltage Output                                   | 1-Phase | 120/240 V Only                                                       | 120/240 V Only                                                       | 120/240 V Only                                                       | 120/240 V Only                                                       | 120/240 V Only                                                       |
|                                                  | 3-Phase | 208/120 V; Configurable for 240/120 V or 480/277 V with Optional VCC | 208/120 V; Configurable for 240/120 V or 480/277 V with Optional VCC | 208/120 V; Configurable for 240/120 V or 480/277 V with Optional VCC | 208/120 V; Configurable for 240/120 V or 480/277 V with Optional VCC | 208/120 V; Configurable for 240/120 V or 480/277 V with Optional VCC |
| Circuit Breaker (CB) or Molded Case Switch (MCS) | 1-Phase | 150 A CB                                                             | 200 A CB                                                             | 200 A CB                                                             | 300 A CB                                                             | 400 A CB                                                             |
|                                                  | 3-Phase | MCS Standard; Field-Installable CB Kit Optional                      | MCS Standard; Field-Installable CB Kit Optional                      | MCS Standard; Field-Installable CB Kit Optional                      | MCS Standard; Field-Installable CB Kit Optional                      | MCS Standard; Field-Installable CB Kit Optional                      |
| Alternator Type                                  |         | Synchronous                                                          |                                                                      |                                                                      |                                                                      |                                                                      |
| Rotor Insulation Class                           |         | F                                                                    |                                                                      |                                                                      | H                                                                    |                                                                      |
| Stator Insulation Class                          |         | H                                                                    |                                                                      |                                                                      |                                                                      |                                                                      |
| Telephone Interference Factor (TIF)              |         | <50                                                                  |                                                                      |                                                                      |                                                                      |                                                                      |
| Bearings                                         |         | Sealed Ball                                                          |                                                                      |                                                                      |                                                                      |                                                                      |
| Coupling                                         |         | Flexible Disc                                                        |                                                                      |                                                                      |                                                                      |                                                                      |
| Excitation System                                |         | Direct                                                               |                                                                      |                                                                      | Brushless                                                            |                                                                      |
| Total Harmonic Distortion                        |         | <5%                                                                  |                                                                      |                                                                      |                                                                      |                                                                      |

### VOLTAGE REGULATION

|            |            |
|------------|------------|
| Type       | Digital    |
| Sensing    | All Phases |
| Regulation | ±1%        |

# GENERATOR SPECIFICATIONS

## SURGE CAPACITY

| Surge Amps at <0.4 Power Factor for Voltage Output | XG03245             |                     | XG04045             |                     | XG04845             |                     | XG06045             |                     | XG08045             |                     |
|----------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
|                                                    | 15% Voltage Dip (A) | 30% Voltage Dip (A) | 15% Voltage Dip (A) | 30% Voltage Dip (A) | 15% Voltage Dip (A) | 30% Voltage Dip (A) | 15% Voltage Dip (A) | 30% Voltage Dip (A) | 15% Voltage Dip (A) | 30% Voltage Dip (A) |
| 120/240V 1-Phase                                   | 107                 | 204                 | 117                 | 267                 | 220                 | 340                 | 150                 | 450                 | 283                 | 600                 |
| 208/120 V 3-Phase                                  | 111                 | 167                 | 139                 | 215                 | 166                 | 266                 | 145                 | 375                 | 236                 | 500                 |
| 240/120 V 3-Phase                                  | 91                  | 140                 | 114                 | 150                 | 144                 | 230                 | 126                 | 324                 | 204                 | 432                 |
| 480/277 V 3-Phase                                  | 55                  | 87                  | 63                  | 102                 | 72                  | 129                 | 90                  | 162                 | 102                 | 192                 |

## ENGINE

|                                             | XG03245                                                 | XG04045   | XG04845   | XG06045                                                   | XG08045                                                |
|---------------------------------------------|---------------------------------------------------------|-----------|-----------|-----------------------------------------------------------|--------------------------------------------------------|
| Make                                        | Generac                                                 |           |           |                                                           |                                                        |
| Model                                       | 4.5 L, Inline 4-Cylinder, Naturally Aspirated           |           |           | 4.5 L, Inline 4-Cylinder, Turbocharged & Aftercooled      |                                                        |
| Compression Ratio                           | 9.9:1                                                   |           |           | 9.1:1                                                     |                                                        |
| Lifter Type                                 | Hydraulic                                               |           |           |                                                           |                                                        |
| Oil Pump Type                               | Gear                                                    |           |           |                                                           |                                                        |
| Oil Filter Type                             | Full Flow Spin-on Cartridge                             |           |           |                                                           |                                                        |
| Crackcase Capacity (qt (L))                 | 11.6 (11.0)                                             |           |           |                                                           |                                                        |
| Temperature Derate                          | 1.7% per 10 °F above 77 °F (1.5% per 5 °C above 25 °C)  |           |           | 3.3% per 10 °F above 95 °F (3.0% per 5 °C above 35 °C)    | 8.3% per 10 °F above 86 °F (7.5% per 5 °C above 30 °C) |
| Altitude Derate                             | 3% per 1,000 ft above 600 ft (1% per 100 m above 183 m) |           |           | 3% per 1,000 ft above 3,000 ft (1% per 100 m above 915 m) |                                                        |
| Exercise Speed (rpm)                        | 1,200                                                   |           |           |                                                           |                                                        |
| Operating Speed (rpm)                       | 1,800                                                   |           |           |                                                           |                                                        |
| Exhaust Flow at Rated Output (cfm (m³/min)) | 187 (8.3)                                               | 235 (6.7) | 280 (7.9) | 565 (16.0)                                                | 812 (23.0)                                             |

## GOVERNOR

|                      |             |
|----------------------|-------------|
| Type                 | Electronic  |
| Frequency Regulation | Isochronous |

## COOLING SYSTEM

|                                              | XG03245                     | XG04045 | XG04845  | XG06045 | XG08045 |
|----------------------------------------------|-----------------------------|---------|----------|---------|---------|
| Coolant                                      | 50/50 (50% Ethylene Glycol) |         |          |         |         |
| Coolant System Capacity<br>(US gal (L))      | 2.9 (11)                    |         |          |         |         |
| Water Pump Type                              | Belt Driven                 |         |          |         |         |
| Fan Type                                     | Belt Driven                 |         | Electric |         |         |
| Fan Quantity                                 | 1                           |         | 3        |         | 4       |
| Maximum Ambient Air Temperature<br>(°F (°C)) | 122 (50)                    |         |          |         |         |

## GENERATOR SPECIFICATIONS

### FUEL SYSTEM

|                                               |                                               |
|-----------------------------------------------|-----------------------------------------------|
| Usable Fuels                                  | Liquid Propane (LP) Vapor or Natural Gas (NG) |
| Fuel Type Configuration                       | Controller-Selected Only                      |
| LP Vapor Pressure (in H <sub>2</sub> O (kPa)) | 7-14 (1.74-3.48)                              |
| NG Pressure (in H <sub>2</sub> O (kPa))       | 3.5-14 (0.87-3.48)                            |
| Fuel Shutoff Solenoid                         | Standard, Dual                                |

### FUEL CONSUMPTION

#### LIQUID PROPANE

| Rated Load               | XG03245  |       | XG04045  |       | XG04845  |       | XG06045  |       | XG08045  |       |
|--------------------------|----------|-------|----------|-------|----------|-------|----------|-------|----------|-------|
|                          | (US gph) | (L/h) | (US gph) | (L/h) | (US gph) | (L/h) | (US gph) | (L/h) | (US gph) | (L/h) |
| No Load @ Exercise Speed | 1.1      | 4.1   | 1.1      | 4.1   | 1.1      | 4.1   | 0.8      | 2.9   | 0.8      | 2.9   |
| 25%                      | 2.6      | 10.0  | 2.8      | 10.7  | 3.0      | 11.5  | 4.2      | 15.7  | 4.9      | 18.4  |
| 50%                      | 3.4      | 13.0  | 3.8      | 14.4  | 4.2      | 15.9  | 6.4      | 24.1  | 7.9      | 29.8  |
| 75%                      | 4.2      | 15.9  | 4.8      | 18.1  | 5.4      | 20.4  | 8.6      | 32.7  | 11.0     | 41.6  |
| 100%                     | 5.0      | 18.9  | 5.8      | 21.9  | 6.6      | 24.8  | 11.0     | 41.6  | 14.2     | 53.8  |

Propane – 91,452 BTU/US gal (25.5 MJ/L); 36 ft<sup>3</sup>/US gal (0.27 m<sup>3</sup>/L); 2,516 BTU/ft<sup>3</sup> (93.7 MJ/m<sup>3</sup>); 4.24 lb/US gal (0.508 kg/L)

#### NATURAL GAS

| Rated Load               | XG03245 |                     | XG04045 |                     | XG04845 |                     | XG06045 |                     | XG08045 |                     |
|--------------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|---------|---------------------|
|                          | (CFH)   | (m <sup>3</sup> /h) | (CFH)   | (m <sup>3</sup> /h) | (CFH)   | (m <sup>3</sup> /h) | (CFH)   | (m <sup>3</sup> /h) | (CFH)   | (m <sup>3</sup> /h) |
| No Load @ Exercise Speed | 71      | 2.0                 | 71      | 2.0                 | 71      | 2.0                 | 105     | 3.0                 | 105     | 3.0                 |
| 25%                      | 177     | 5.0                 | 198     | 5.6                 | 215     | 6.1                 | 391     | 11.1                | 449     | 12.7                |
| 50%                      | 258     | 7.3                 | 297     | 8.4                 | 335     | 9.5                 | 571     | 16.2                | 698     | 19.8                |
| 75%                      | 335     | 9.5                 | 396     | 11.2                | 456     | 12.9                | 765     | 21.7                | 972     | 27.5                |
| 100%                     | 417     | 11.8                | 494     | 14.0                | 576     | 16.3                | 972     | 27.5                | 1,270   | 36.0                |

Natural Gas – 1,036 BTU/ft<sup>3</sup> (37.3 MJ/m<sup>3</sup>)

See Emissions Data Sheets for maximum fuel flow for EPA and SCAQMD permitting purposes.

### ELECTRICAL SYSTEM

|                                    | XG03245                                      | XG04045 | XG04845 | XG06045 | XG08045 |
|------------------------------------|----------------------------------------------|---------|---------|---------|---------|
| System Voltage (V)                 | 12                                           |         |         |         |         |
| Charge Alternator (A)              | 37                                           |         | 145     |         |         |
| Battery Charger (A)                | 5                                            |         |         |         |         |
| Recommended Battery (not included) | Flooded Lead Acid, Group 27, 600 CCA Minimum |         |         |         |         |
| Maximum Allowable Battery          | Flooded Lead Acid, Group 31, 750 CCA Minimum |         |         |         |         |

### ENCLOSURE

|                                                                             | XG03245    | XG04045 | XG04845 | XG06045 | XG08045 |
|-----------------------------------------------------------------------------|------------|---------|---------|---------|---------|
| Sound Level at Exercise Speed (dB(A) @ 23 ft (7 m)) <sup>5</sup>            | 59         | 59      | 54      | 55      | 55      |
| Sound Level at Operating Speed & No Load (dB(A) @ 23 ft (7 m)) <sup>5</sup> | 66         | 66      | 58      | 64      | 64      |
| Wind Speed Rating (mph (km/h)) <sup>6</sup>                                 | 145 (233)  |         |         |         |         |
| Color                                                                       | Metro Gray |         |         |         |         |

5 - Lowest sound level measurement of 8 locations around the generator. Sound levels at other locations around the generator may vary depending on the installation.

6 - ASCE 7-16 exposure B wind speed rating

**POWER ZONE 410 CONTROLLER**


016030

**Standard Features**

- 128 x 64 Pixel Graphical Display with Heater
- Multilingual
  - English
  - French
  - Spanish
  - Portuguese
- 3-Phase Sensing Digital Voltage Regulator
- Full Range Standby Operation
- Full System Status
  - 3-Phase AC Voltage
  - 3-Phase Current
  - Power
  - Power Factor
  - Oil Pressure
  - Engine Coolant Temperature
  - Oil Temperature
  - Fuel Pressure
  - Engine Speed
  - Battery Voltage
  - Output Frequency
  - Time
  - Date
  - Load On Line Power and Gen Power
  - Hourmeter
  - Service Reminders
  - Fault History (Alarm Log)
- Remote Communications
- Programmable Auto Crank
- Emergency Stop
- Not in Auto Flashing Light
- Selectable Low Speed Exercise
- NFPA 110 System Control Capable
- 5A Integrated Battery Charger

**Standard Protections**

- Low Oil Pressure
- Low Coolant Level
- High/Low Coolant Temperature
- Oil Temperature
- Over/Under Speed
- Over/Under Voltage
- Over/Under Frequency
- Over/Under Current

- Overload
- Battery Voltage
- Battery Charger Current
- Phase-to-Phase and Phase-to-Neutral Short Circuits (I<sup>2</sup>T Algorithm)
- Ground Fault

**Display**

- Easy Menu Structure
- Multilingual (English, Spanish, French, and Portuguese)
- On Screen Editable Parameters
- Key Function Monitoring
  - 3-Phase Voltage, Amperage, Power, Apparent Power, Reactive Power
  - Selectable Average or Line-to-Neutral Voltage Measurements
  - Frequency
  - Engine Speed
  - Engine Coolant Temperature
  - Oil Pressure
  - Battery Voltage
  - Warning and Alarm Indication
  - Diagnostics
  - Maintenance Events/Information
  - Hourmeter

**Control Panel**

- AUTO/OFF/MANUAL
  - Operation Through Onboard Buttons or Optional Key Switch
  - Indication Through Display Screen and LEDs

- Audible Alarm and Silence
- Auxiliary Shutdown Rocker Switch (on controller)
- Not-in-Auto Indication

**Voltage Regulation**

- Digital Control
- 3-Phase Sensing
- Variable V/F Slope Settings
- Negative Power Limit
- Loss of Sensing Protection
- Fault Protection (I<sup>2</sup>T Function)
- High Voltage Limit
- Low Voltage Limit
- Maximum Power Limit

**Governor Functionality**

- Speed Control through ECM Integration

**Communications Ports**

- 1 CANbus Port
- 1 USB Port (for Configuration Transfer and Firmware Upgrades)
- 1 RS-485 Modbus Client Port (for External RAP/RRP/External I/O Modules)
- 1 RS-485 Modbus Server Port (for other uses, e.g. Building Management System)
- 2 RS-232 Communication Ports (for GGCAC or other uses)

**Codes And Standards**

- UL 6200
- CE
- NFPA 110

## FIELD-INSTALLABLE ACCESSORIES

| PRODUCT                                                                        | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                                                                                                            | XG032/40/48 ACCESSORY | XG060/80 ACCESSORY |
|--------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|
| <b>3-Phase XG Voltage Configuration Cartridges (VCC)</b>                       |             |                                                                                                                                                                                                                                                                                                                                        |                       |                    |
| <u>XG025/30/32/40/48 'G' 208/120 V 3-Phase Voltage Configuration Cartridge</u> | G0099010    | Voltage Configuration Cartridge (VCC) for 208/120 V 3-phase output. It is INSTALLED in every 3-phase XG02525, XG03025, XG03245, XG04045, and XG04845 model from the factory. Offered as an accessory if a replacement is needed for any reason. <u>For use in 3-phase XG02525, XG03025, XG03245, XG04045, and XG04845 models only.</u> | ✓                     |                    |
| <u>XG025/30/32/40/48 'J' 240/120 V 3-Phase Voltage Configuration Cartridge</u> | G0099020    | Voltage Configuration Cartridge (VCC) for 240/120 V 3-phase output. It is NOT included with any XG02525, XG03025, XG03245, XG04045, or XG04845 model. <u>For use in 3-phase, XG02525, XG03025, XG03245, XG04045, and XG04845 models only.</u>                                                                                          | ✓                     |                    |
| <u>XG025/30/32/40/48 'K' 480/277 V 3-Phase Voltage Configuration Cartridge</u> | G0099030    | Voltage Configuration Cartridge (VCC) for 480/277 V 3-phase output. It is NOT included with any XG02525, XG03025, XG03245, XG04045, or XG04845 model. <u>For use in 3-phase XG02525, XG03025, XG03245, XG04045, and XG04845 models only.</u>                                                                                           | ✓                     |                    |
| <u>XG060/80 'G' 208/120 V 3-Phase Voltage Configuration Cartridge</u>          | G0099740    | Voltage Configuration Cartridge (VCC) for 208/120 V 3-phase output. It is INSTALLED in every 3-phase XG06045 and XG08045 model from the factory. Offered as an accessory if a replacement is needed for any reason. <u>For use in 3-phase XG06045 and XG08045 models only.</u>                                                         |                       | ✓                  |
| <u>XG060/80 'J' 240/120 V 3-Phase Voltage Configuration Cartridge</u>          | G0099750    | Voltage Configuration Cartridge (VCC) for 240/120 V 3-phase output. It is NOT included with any 3-phase XG06045 or XG08045 model. <u>For use in 3-phase XG06045 and XG08045 models only.</u>                                                                                                                                           |                       | ✓                  |
| <u>XG060/80 'K' 480/277 V 3-Phase Voltage Configuration Cartridge</u>          | G0099760    | Voltage Configuration Cartridge (VCC) for 480/277 V 3-phase output. It is NOT included with any 3-phase XG06045 or XG08045 model. <u>For use in 3-phase XG06045 and XG08045 models only.</u>                                                                                                                                           |                       | ✓                  |
| <b>3-Phase XG Circuit Breaker Kits</b>                                         |             |                                                                                                                                                                                                                                                                                                                                        |                       |                    |
| 60 A 3-Pole Circuit Breaker (CB) Kit                                           | G0099040    | 3-pole, 60 A CB and mounting hardware (typical for 30 & 32 kW, 480/277 V 3-phase generators). Offered as a substitute for the standard Molded Case Switch (MCS) if a CB is required for the installation.                                                                                                                              | ✓                     |                    |
| 70 A 3-Pole Circuit Breaker (CB) Kit                                           | G0099190    | 3-pole, 70 A CB and mounting hardware (typical for 40 kW, 480/277 V 3-phase generator). Offered as a substitute for the standard Molded Case Switch (MCS) if a CB is required for the installation.                                                                                                                                    | ✓                     |                    |
| 80 A 3-Pole Circuit Breaker (CB) Kit                                           | G0099050    | 3-pole, 80 A CB and mounting hardware (typical for 48 kW, 480/277 V 3-phase generator). Offered as a substitute for the standard Molded Case Switch (MCS) if a CB is required for the installation.                                                                                                                                    | ✓                     |                    |
| 100 A 3-Pole Circuit Breaker (CB) Kit                                          | G0099060    | 3-pole, 100 A CB and mounting hardware (typical for 25 kW, 208/120 V; 30 & 32 kW, 240/120 V; and 60 kW, 480/277 V 3-phase generators). Offered as a substitute for the standard Molded Case Switch (MCS) if a CB is required for the installation.                                                                                     | ✓                     | ✓                  |
| 125 A 3-Pole Circuit Breaker (CB) Kit                                          | G0099070    | 3-pole, 125 A CB and mounting hardware (typical for 30 & 32 kW, 208/120 V and 40 kW, 240/120 V 3-phase generators). Offered as a substitute for the standard Molded Case Switch (MCS) if a CB is required for the installation.                                                                                                        | ✓                     |                    |
| 150 A 3-Pole Circuit Breaker (CB) Kit                                          | G0099080    | 3-pole, 150 A CB and mounting hardware (typical for 40 kW, 208/120 V; 48 kW, 240/120 V; and 80 kW, 480/277 V 3-phase generators). Offered as a substitute for the standard Molded Case Switch (MCS) if a CB is required for the installation.                                                                                          | ✓                     | ✓                  |
| 175 A 3-Pole Circuit Breaker (CB) Kit                                          | G0099090    | 3-pole, 175 A CB and mounting hardware (typical for 48 kW, 208/120 V 3-phase generator). Offered as a substitute for the standard Molded Case Switch (MCS) if a CB is required for the installation.                                                                                                                                   | ✓                     |                    |
| 200 A 3-Pole Circuit Breaker (CB) Kit                                          | G0099200    | 3-pole, 200 A CB and mounting hardware (typical for 60 kW, 208/120 V and 240/120 V 3-phase generators). Offered as a substitute for the standard Molded Case Switch (MCS) if a CB is required for the installation.                                                                                                                    |                       | ✓                  |
| 300 A 3-Pole Circuit Breaker (CB) Kit                                          | G0099810    | 3-pole, 300 A CB and mounting hardware (typical for 80 kW, 208/120 V and 240/120 V 3-phase generators). Offered as a substitute for the standard Molded Case Switch (MCS) if a CB is required for the installation.                                                                                                                    |                       | ✓                  |

## FIELD-INSTALLABLE ACCESSORIES

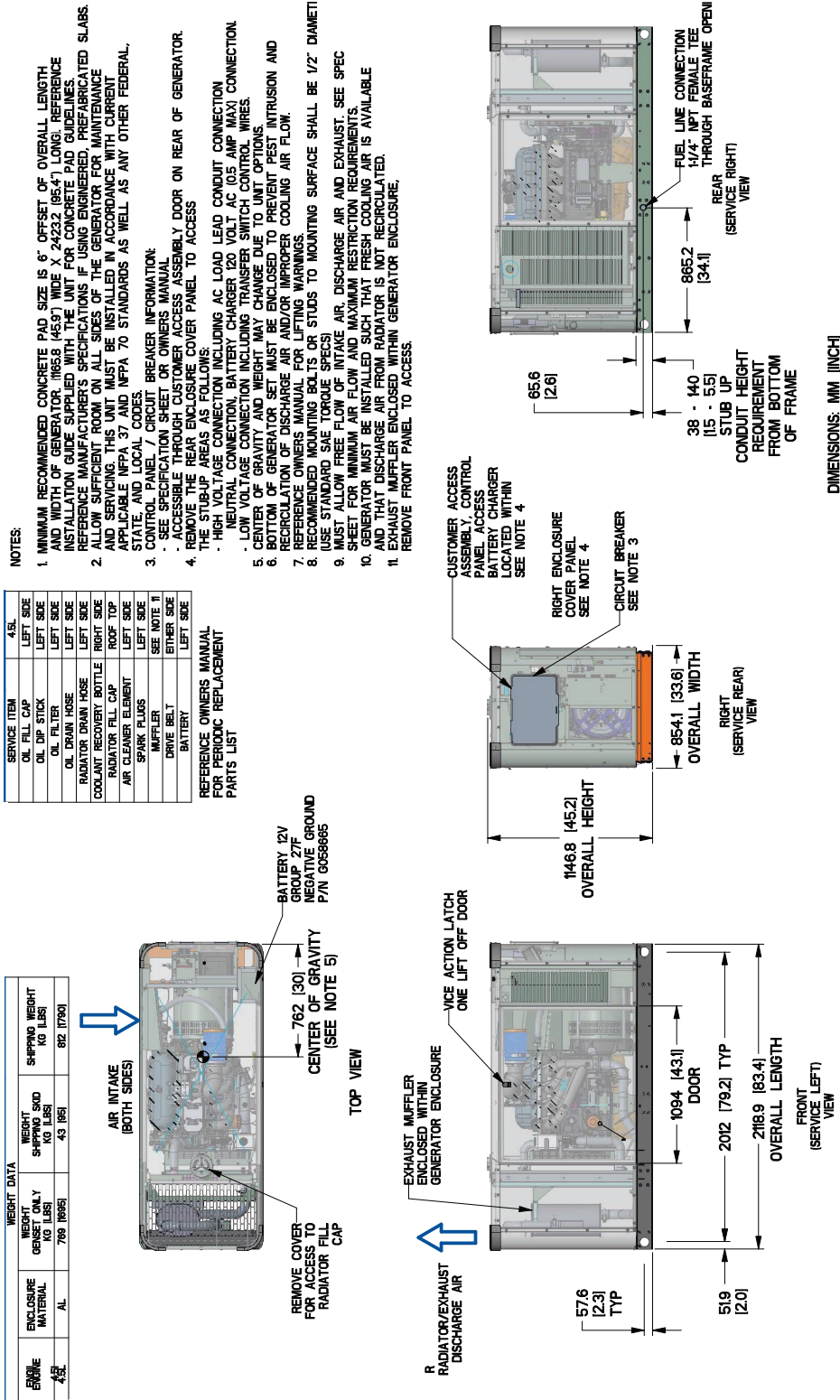
| PRODUCT                                             | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | XG032/40/48 ACCESSORY | XG060/80 ACCESSORY |
|-----------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|
| <b>Control System Kits</b>                          |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                    |
| Push-Button Generator Emergency Shutdown Switch Kit | G0099851    | Replacement push-button shutdown switch for earlier XG03245, XG04045, and XG04845 generator models which have a rocker-type shutdown switch on the exterior of the generator enclosure. The push-button switch reduces risk of unintentional shutdown resulting from inadvertently contacting the rocker-type switch. The push-button switch replaces the rocker-type in the same location. The kit can also replace rocker-type shutdown switches on RG, RD, and other generator series models. All NEW XG models now include the push-button switch. | ✓                     |                    |
| Generator Ready-Status Indicator Kit                | G0099100    | 3-color LED providing at-a-glance indication of generator ready-to-run status. The display mounts to the front of the generator and plugs into the wire harness.                                                                                                                                                                                                                                                                                                                                                                                       | ✓                     | ✓                  |
| Enclosure Mounted Emergency Stop Kit                | G0079930    | Emergency Stop consists of a red push button switch. It mounts to the exterior of the generator enclosure replacing the Generator Emergency Shutdown push-button switch in the same location.                                                                                                                                                                                                                                                                                                                                                          | ✓                     | ✓                  |
| Remote Emergency Stop Kit, Surface Mount            | G0099250    | Emergency Stop consists of a red push button switch with twist release. The switch has an aluminum enclosure which can be mounted extending out from a surface. It mounts remote from the generator such as near an electrical panel.                                                                                                                                                                                                                                                                                                                  | ✓                     | ✓                  |
| Remote Emergency Stop Kit, Flush Mount              | G0099260    | Emergency Stop consists of a red push button switch with twist release. The switch has an aluminum enclosure which can be mounted flush. It mounts remote from the generator such as near an electrical panel.                                                                                                                                                                                                                                                                                                                                         | ✓                     | ✓                  |
| Remote Emergency Stop Kit, Break Glass              | G0099270    | Emergency Stop consists of a spring-loaded switch behind breakable glass. The glass can be broken with the tethered hammer. The switch has an aluminum enclosure which can be mounted extending out from a surface. It mounts remote from the generator such as near an electrical panel.                                                                                                                                                                                                                                                              | ✓                     | ✓                  |
| Generac Load Manager, 50 A                          | G0070001    | 50 A Load Manager for 1-phase loads helps optimize the performance of the standby generator by managing large electrical loads upon startup and shed them to aid in recovery when overloaded.                                                                                                                                                                                                                                                                                                                                                          | ✓                     | ✓                  |
| Generac Load Manager, 100 A                         | G0070061    | 100 A Load Manager for 1-phase loads helps optimize the performance of the standby generator by managing large electrical loads upon startup and shed them to aid in recovery when overloaded.                                                                                                                                                                                                                                                                                                                                                         | ✓                     | ✓                  |
| Generac LTE Propane Tank Fuel Level Monitor         | G0070090    | The Propane Tank Fuel Level Monitor connects to 4G LTE cellular service to measure and report the amount of LP fuel remaining in the tank. The app alerts the user of both remaining LP fuel and usage reports.                                                                                                                                                                                                                                                                                                                                        | ✓                     | ✓                  |
| <b>Power Zone Kits</b>                              |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                       |                    |
| NFPA 110 Controller Kit                             | G0099120    | Includes controller module with Key Switch, Alarm Horn, and Emergency Stop Switch which connects to the Power Zone 410 controller. The module mounts below the controller and is visible through the control panel cover. The G0098511, G0098521, or G0098531 panel and a capable transfer switch are required to be considered for NFPA 110 system control and remote annunciation.                                                                                                                                                                   | ✓                     | ✓                  |
| Remote Annunciator Panel with 8 Relays              | G0098511    | Remote annunciator panel with relays. The panel mounts in the structure that is connected to the backup generator.                                                                                                                                                                                                                                                                                                                                                                                                                                     | ✓                     | ✓                  |
| Remote Relay Panel                                  | G0098521    | Remote relay panel without LEDs or keypad. The panel mounts in the structure that is connected to the backup generator.                                                                                                                                                                                                                                                                                                                                                                                                                                | ✓                     | ✓                  |
| Remote Annunciator Panel without Relays             | G0098531    | Remote annunciator panel without relays. The panel mounts in the structure that is connected to the backup generator.                                                                                                                                                                                                                                                                                                                                                                                                                                  | ✓                     | ✓                  |
| Power Zone 410 I/O Extender Kit                     | G0089370    | The kit expands I/O for the Power Zone 410 controller to provide connections for additional accessories. It connects to the controller with a 3-wire RS-485 interface.                                                                                                                                                                                                                                                                                                                                                                                 | ✓                     | ✓                  |
| Power Zone Gateway Kit                              | G0089360    | The Gateway kit provides an Ethernet connection port for the generator for a Building Management System (BMS). The Gateway is NOT intended for or able to be used with Mobile Link or Fleet.                                                                                                                                                                                                                                                                                                                                                           | ✓                     | ✓                  |

## FIELD-INSTALLABLE ACCESSORIES

| PRODUCT                                                                 | PART NUMBER | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                 | XG032/40/48 ACCESSORY | XG060/80 ACCESSORY |
|-------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------------|
| <b>Operating Environment Kits</b>                                       |             |                                                                                                                                                                                                                                                                                                                                                             |                       |                    |
| Battery Heater Kit                                                      | G0079920    | Recommended for operating environments where the temperature drops below 32 °F (0 °C). The heater is externally powered by 120 VAC, 60 Hz. Fits XG03245, XG04045, XG04845, XG06045, and XG08045 models.                                                                                                                                                     | ✓                     | ✓                  |
| Engine Block Heater Kit                                                 | G0099230    | Recommended for operating environments where the temperature drops below 0 °F (-18 °C). The heater is externally powered by 120 VAC, 60 Hz. Fits XG03245, XG04045, XG04845, XG06045, and XG08045 models.                                                                                                                                                    | ✓                     | ✓                  |
| <b>Installation Kits</b>                                                |             |                                                                                                                                                                                                                                                                                                                                                             |                       |                    |
| Exhaust Diverter Kit, XG03245, XG04045, & XG04845                       | G0099715    | The exhaust diverter kit assembles to top of the generator, extending the full length of the roof. The exhaust is redirected from upward to the side at the front of the generator. Useful for keeping out small leaves or needles, which could drop into the exhaust area or climates with heavy snowfall. Fits XG03245, XG04045, and XG04845 models only. | ✓                     |                    |
| Baseframe Blockoff Kit, XG03245, XG04045, & XG04845                     | G0099150    | Aluminum panel and hardware to close off the bottom of the generator. It maintains correct airflow through the generator for cooling while keeping animals and objects out. It is required anytime the generator is elevated. Fits XG03245, XG04045, and XG04845 models only.                                                                               | ✓                     |                    |
| Engine Fluid Containment Kit, XG03245, XG04045, & XG04845               | G0099160    | Containment pan to capture all engine oil and coolant. Kit includes a sensor to detect the presence of fluid in the pan, then displays a warning on the controller screen. The G0089370 Power Zone 410 I/O Extender Kit is required for the sensor installation. Fits XG03245, XG04045, and XG04845 models only.                                            | ✓                     |                    |
| Exhaust Diverter Kit, XG06045 & XG08045                                 | G0099710    | The exhaust diverter kit assembles to the top of the generator extending the full length of the roof. The exhaust is redirected from upward to the side at the front of the generator. Useful for keeping out small leaves or needles which could drop into the exhaust area or climates with heavy snowfall. Fits XG06045 and XG08045 models only.         |                       | ✓                  |
| Baseframe Blockoff Kit, XG06045 & XG08045                               | G0099700    | Aluminum panel and hardware to close off the bottom of the generator. It maintains correct airflow through the generator for cooling while keeping animals and objects out. It is required anytime the generator is elevated. Fits XG06045 and XG08045 models only.                                                                                         |                       | ✓                  |
| Engine Fluid Containment Kit, XG06045 & XG08045                         | G0099720    | Containment pan to capture all engine oil and coolant. Kit includes a sensor to detect the presence of fluid in the pan, then displays a warning on the controller screen. The G0089370 Power Zone I/O Extender Kit is required for sensor installation. Fits XG06045 and XG08045 models only.                                                              |                       | ✓                  |
| Base Plug Kit                                                           | G0056510    | Base plugs to fit in the lifting holes of the baseframe to keep debris out.                                                                                                                                                                                                                                                                                 | ✓                     | ✓                  |
| <b>Maintenance Kits</b>                                                 |             |                                                                                                                                                                                                                                                                                                                                                             |                       |                    |
| 4.5 L Gaseous Engine Regular Maintenance Kit                            | G0079910    | Regular maintenance kit includes oil filter, oil funnel, air filter, and spark plugs. Applies to XG03245, XG04045, XG04845, XG06045, and XG08045.                                                                                                                                                                                                           | ✓                     | ✓                  |
| Metro Gray Paint Kit                                                    | G0099180    | It is important to touch-up the paint to protect against corrosion if the generator enclosure is scratched or damaged. The paint kit includes the necessary paint to correctly maintain or touch-up a generator enclosure.                                                                                                                                  | ✓                     | ✓                  |
| <b>Transfer Switch Kits</b>                                             |             |                                                                                                                                                                                                                                                                                                                                                             |                       |                    |
| 3-Phase Voltage Sensing Kit for 208/120 & 240/120 V RTS Transfer Switch | G0074110    | 3-phase Voltage Sensing Kit <u>required</u> for RTS Transfer Switches <u>when used with</u> the Power Zone 410 controller for 'G' 208/120 or 'J' 240/120 V 3-phase voltage. The kit is used with 3-phase XG03245, XG04045, XG04845, XG06045, and XG08045 models configured for 'G' or 'J' voltage.                                                          | ✓                     | ✓                  |
| 3-Phase Voltage Sensing Kit for 480/277 V RTS Transfer Switch           | G0074120    | 3-phase Voltage Sensing Kit <u>required</u> for RTS Transfer Switches <u>when used with</u> the Power Zone 410 controller for 'K' 480/277 V 3-phase voltage. The kit is used with 3-phase XG03245, XG04045, XG04845, XG06045, and XG08045 models configured for 'K' voltage.                                                                                | ✓                     | ✓                  |

32-40-48 KW

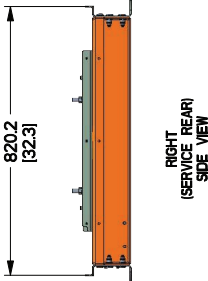
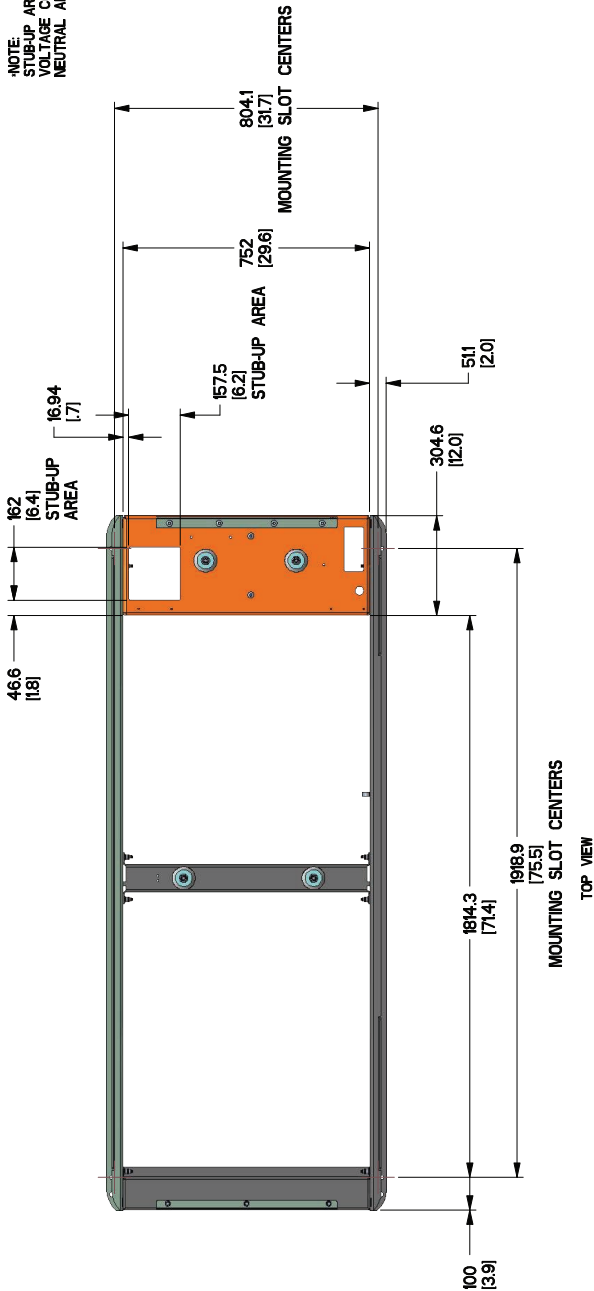
Drawing # A0005421459 Rev E (1 of 2)



INSTALLATION DRAWING

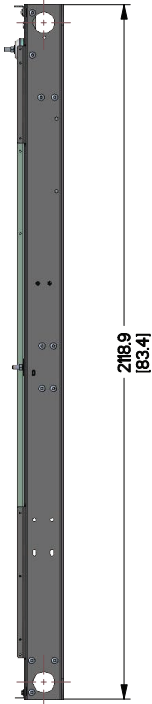
Drawing # A0005421459 Rev E (2 of 2)

NOTE:  
STUB-UP AREA FOR HIGH AND LOW  
VOLTAGE CONNECTIONS, CIRCUIT BREAKER,  
NEUTRAL AND CUSTOMER CONNECTION OPENING.



RIGHT  
(SERVICE REAR)  
SIDE VIEW

DIMENSIONS: MM (INCH)



FRONT  
(SERVICE LEFT)  
SIDE VIEW



INSTALLATION DRAWING

Drawing # A0009887867 Rev A (2 of 2)

