

# Project Application

## Land Use Department

P.O. Box 660; 333 Calef Hwy, Barrington, NH 03825 ♦ Phone: 603-664-5798 ♦ Fax: 603-664-0188

Case Number: 254-11-RC-14 SR Project Name: 914 Calef Highway Date 11/12/2014

Staff Signature required PRIOR to submittal

PRELIMINARY APPLICATION: Preliminary Conceptual Review \_\_\_ Design Review \_\_\_ Development of Regional Impact \_\_\_

### FORMAL APPLICATION:

Subdivision Type: Major \_\_\_ Minor \_\_\_ Conventional \_\_\_ Conservation \_\_\_  
Site Plan Review: Major \_\_\_ Minor \_\_\_  
Conditional Use Permit \_\_\_ Sign Permit \_\_\_ Boundary Line Adjustment \_\_\_ Special Permit \_\_\_  
Change of Use ☒ Extension for Site Plan or Subdivision Completion \_\_\_  
Amendment to Subdivision/Site Plan Approval \_\_\_ Other \_\_\_

Project Name: 914 CALEF HIGHWAY Area (Acres or S.F.) \_\_\_  
Project Address: 914 CALEF HIGHWAY (AKA ROUTE 125)  
Current Zoning District(s): RCD Map(s) 254 Lot(s) 10+9  
Request: \_\_\_

The property owner shall designate an agent for the project. This person (the applicant) shall attend pre-application conferences and public hearings, will receive the agenda, recommendations, and case reports, and will communicate all case information to other parties as required.  
All contacts for this project will be made through the Applicant listed below.

Owner: 914 CALEF HIGHWAY, LLC  
Company: \_\_\_  
Phone: 335-7290 Fax: N/A E-mail: N/A  
Address: 5 PINEKNOLL DRIVE ROCHESTER NH 03867

Applicant (Contact): KEVIN MCENEANEY  
Company: MCENEANEY SURVEY ASSOCIATES, INC.  
Phone: 742-0911 Fax: 743-3019 E-mail: Kevin@surveynh.com  
Address: 24 CHESTNUT STREET DOVER NH 03820

Developer: N/A  
Company: \_\_\_  
Phone: \_\_\_ Fax: \_\_\_ E-mail: \_\_\_  
Address: \_\_\_

Architect: N/A  
Company: \_\_\_  
Phone: \_\_\_ Fax: \_\_\_ E-mail: \_\_\_  
Address: \_\_\_

Engineer: N/A  
Company: \_\_\_  
Phone: \_\_\_ Fax: \_\_\_ E-mail: \_\_\_  
Address: \_\_\_

Owner Signature  
Barbara Irvine  
Staff Signature

Applicant Signature  
Kevin McEnaney  
Date 11/12/2014

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# TOWN OF BARRINGTON - LAND USE DEPARTMENT

## PROJECT NARRATIVE

PROJECT NAME 914 CALEF HIGHWAY CASE FILE NUMBER 254-J1-RC-14-SR  
PROJECT LOCATION 914 CALEF HIGHWAY (AKA ROUTE 125)  
DATE OF APPLICATION NOVEMBER 12, 2014

### Property Details:

Single-Family Residential Multi-Family Residential Commercial Industrial

Current Zoning: RC Lot Area Size ~~2.32 AC.~~ 1.2 acre lot

Setbacks: Front 75' Side 30' Rear 30'

Parking Spaces Required: 5 Parking Spaces Provided: 6

Please describe your project and its purpose and intent. You may attach a typed description.

~~This application is for a change of use on an existing 2800 s.f., one story commercial structure located at 914 Calef Highway (aka Route 125). The building is located in the Regional Commercial Zoning District, on a 2.32 acre parcel as shown on Assessor's Map 254, Lot 10. Access to this structure is by a paved driveway from Route 125.~~

~~The subject building was formerly used as a cabinet shop, having only one employee, the owner. The proposed use is for an appliance repair shop which would have 2 employees, the owner and his wife.~~

~~Per Section 4.9.13(2), of the Barrington Site Review Regulations, Table 6 (Parking Standards by Use) the required parking spaces for the RC Zoning District for a repair shop would be 1 space per 600 s.f. of gross floor area. Given that the subject building is 2800 s.f., the parking requirement for this proposed use would be 5 spaces. The existing paved parking area in front of the building is sufficient in size to accommodate 6 parking spaces, and therefore fulfills this requirement.~~

Additionally, there is a request for an approval to place a proposed 60KW generator with concrete pad behind the Good and Plenty Restaurant as shown on the attached plan.

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914 Calef Highway Case # 254-11-RC-14-SR

**Subdivision, Site Review, and Lot Line Adjustment Application Checklist**  
**Barrington Planning Board**  
**Adopted January 20, 2009**

This checklist is intended to assist applicants in preparing a complete application for subdivision as required by the Barrington Subdivision Regulations and must be submitted along with all subdivision applications. An applicant seeking subdivision approval shall be responsible for all requirements specified in the Barrington Subdivision Regulations even if said requirements are omitted from this checklist.

An applicant seeking subdivision approval shall be responsible for providing all the information listed in the column below entitled "Subdivision" and should place an "x" in each box to indicate that this information has been provided. If an item is considered unnecessary for certain applications the "NA" box should be marked instead indicating "Not Applicable". Only certain checklist items are required for lot line adjustments, as noted by the applicable check boxes below.

| Check The Appropriate Box or Boxes Below:  |  |  |  |  |
|--|--|--|--|--|
| <input type="checkbox"/> Lot Line Relocation<br>See Section I & II   | <input checked="" type="checkbox"/> Site Plan<br>See Sections I & II | <input type="checkbox"/> Subdivision Plan<br>See Sections I, II, III, IV & V |  |  |
|  | Provided   | NA   |  |  |
| <b>Section I.</b>  |  |  |  |  |
| <b>General Requirements</b>  |  |  |  |  |
| 1. Completed Application Form  | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |
| 2. Complete abutters list  | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |
| 3. Payment of all required fees  | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |
| 4. Five (5) full size sets of plans and six (6) sets of plans 11" by 17" submitted with all required information in accordance with the subdivision regulations and this checklist | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |
| 5. Copies of any proposed easement deeds, protective covenants or other legal documents  | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |
| 6. Any waiver request(s) submitted with justification in writing   | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |
| 7. Technical reports and supporting documents (see Sections IX & X of this checklist)  | <input type="checkbox"/>   | <input checked="" type="checkbox"/>  |  |  |
| 8. Completed Application Checklist   | <input checked="" type="checkbox"/>                                  | <input checked="" type="checkbox"/>  |  |  |
| <b>Section II.</b>   |  |  |  |  |
| <b>General Plan Information</b>  |  |  |  |  |
| 1. Size and presentation of sheet(s) per registry requirements and the subdivision regulations   | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |
| 2. Title block information:  | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |
| a. Drawing title   | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |
| b. Name of subdivision   | <input type="checkbox"/>   | <input checked="" type="checkbox"/>  |  |  |
| c. Location of subdivision   | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |
| d. Tax map & lot numbers of subject parcel(s)  | <input checked="" type="checkbox"/>                                  | <input type="checkbox"/>   |  |  |

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(date of adoption)

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|   |                                     |                                     |  |  |
|---|-------------------------------------|-------------------------------------|--|--|
| 22. Existing easements (identified by type)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| A) Drainage easement(s)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| B) Slope easements(s)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| C) Utility easement(s)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| D) Temporary easement(s) (Such as temporary turnaround  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| E) No-cut zone(s) along streams & wetlands ( as may be requested by the   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| F) Conservation Commission)   |                                     |                                     |  |  |
| G) Vehicular & pedestrian access easement(s)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| H) Visibility easement(s)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| I) Fire pond/cistern(s)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| J) Roadway widening easement(s)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| K) Walking trail easement(s)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| a) Other easement(s) Note type(s)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| 23. Designation of each proposed lot (by map & lot numbers as provided by the assessor)                               | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| 24. Area of each lot (in acres & square feet):  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| a. Existing lot(s)  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| b. Contiguous upland(s)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| 25. Wetland delineation (including Prime Wetlands):   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| a. Limits of wetlands   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| b. Wetland delineation criteria   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| c. Wetland Scientist certification  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| 26. Owner(s) signature(s)   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| 27. All required setbacks   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| 28. Physical features   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| a. Buildings  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| b. Wells  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| c. Septic systems   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| d. Stone walls  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| e. Paved drives   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |  |  |
| f. Gravel drives  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| 29. Location & name (if any) of any streams or water bodies   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| 30. Location of existing overhead utility lines, poles, towers, etc.  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| 31. Two-foot contour interval topography shown over all subject parcels   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| 32. Map and lot numbers, name, addresses, and zoning of all abutting land owners                                      | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |  |  |
| <b>Section III</b>  |                                     |                                     |  |  |
| <b>Proposed Site Conditions Plan</b>  |                                     |                                     |  |  |
| <b>(Use Sections I General Requirements &amp; Section II General Plan Information)</b>                                |                                     | N/A                                 |  |  |
| 1. Surveyor's stamp and signature by Licensed Land Surveyor   | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |  |  |
| 2. Proposed lot configuration defined by metes and bounds   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| 3. Proposed easements defined by metes & bounds. Check each type of proposed easement applicable to this application: | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| a. Drainage easement(s)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| b. Slope easement(s)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| c. Utility easement(s)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| d. Temporary easement(s) (such as temporary turnaround)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| e. Roadway widening easement(s)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| f. Walking trail easement(s)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| g. Other easement(s) Note type(s)   | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |
| 4. Area of each lot (in acres & square feet):   |                                     |                                     |  |  |
| a. Total upland(s)  | <input type="checkbox"/>            | <input checked="" type="checkbox"/> |  |  |

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## APPLICATION AGREEMENT

N/A

I hereby apply for Subdivision Plan Review and acknowledge I will comply with all of the ordinances of the Town Of Barrington, New Hampshire State Laws, as well as any stipulations of the Planning Board, in development and construction of this project. I understand that if any of the subdivision Plan or Application specifications are incomplete, the Application will be considered rejected.

In consideration for approval and the privileges accruing thereto, the subdivider thereby agrees:

- E. To carry out the improvements agreed upon and as shown and intended by said plat, including any work made necessary by unforeseen conditions which become apparent during construction of the subdivision.
- E. To post all streets "Private" until accepted by the Town and to provide and install street signs as approved by the Selectmen of the Town for all street intersections.
- E. To give the Town on demand, proper deeds for land or rights-of-way reserved on the plat for streets, drainage, or other purposes as agreed upon.
- E. To save the Town harmless from any obligation it may incur or repairs it may make, because of my failure to carry out any of the foregoing provisions.
- E. Mr/Mrs \_\_\_\_\_ of \_\_\_\_\_ to whom all communications to the subdivider may be addressed with any proceedings arising out of the agreement herein.

Signature of Owner: \_\_\_\_\_

Signature of Developer: \_\_\_\_\_

Technical Review Signatures: \_\_\_\_\_

Town Engineer/Planner Approval Signature: \_\_\_\_\_ The owners, by the filing of this application as indicated above, hereby give permission for any member of the Barrington Planning Board, the Town Engineer, The Conservation Commission and such agents or employees of the Town or other persons as the Planning Board may authorize, to enter upon the property which is the subject of this application at all reasonable times for the purpose of such examinations, surveys, test and inspections as may be appropriate.

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(Refusal to sign this permission form does not invalidate an application, but the Planning Board may not be able to make an informed decision regarding unseen lands with potential areas of concerns).

Signature of Owner: Walter [Signature]

**Note:** The developer/individual in charge must have control over all project work and be available to the Road Agent and Code Enforcement Officer during the construction phase of the project. The Road Agent and Code Enforcement Officer must be notified within two (2) working days of any change by the individual in charge of the project.

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ADMINISTRATIVE AND REVIEW FEES





# 200' Abuttee List Report

Barrington, NH  
November 04, 2014

914 Cale Highway  
Casett 254-10-RC-14-SR

## Subject Property:

① Parcel Number: 254-0010  
CAMA Number: 254-0010  
Property Address: 914 CALEF HWY

Mailing Address: 914 CALEF HIGHWAY LLC  
5 PINEKNOLL DR  
ROCHESTER, NH 03867

## Abutters:

② Parcel Number: 250-0001  
CAMA Number: 250-0001  
Property Address: CALEF HWY

Mailing Address: BORODAVCHUK VLADIMIR & CHRISTI  
TRS REV FAM TR  
14 WINKLEY POND RD  
BARRINGTON, NH 03825

③ Parcel Number: 254-0001  
CAMA Number: 254-0001  
Property Address: 927 CALEF HWY

Mailing Address: ANDERSON TR JOHN & KEN BIRCH HILL  
EST RE TR  
C/O J&M ANDERSON PO BOX 1194  
ALTON, NH 03809

④ Parcel Number: 254-0007  
CAMA Number: 254-0007  
Property Address: 28 IVY LN

Mailing Address: JEWETT EDWARD  
32 HARRIMAN HILL RD  
RAYMOND, NH 03077

⑤ Parcel Number: 254-0008  
CAMA Number: 254-0008  
Property Address: 924 CALEF HWY

Mailing Address: GORMAN DONNA  
924 CALEF HWY  
BARRINGTON, NH 03825

Parcel Number: 254-0009  
CAMA Number: 254-0009  
Property Address: CALEF HWY

Mailing Address: 914 CALEF HIGHWAY LLC  
5 PINEKNOLL DR  
ROCHESTER, NH 03867

Parcel Number: 254-0011  
CAMA Number: 254-0011  
Property Address: 904 CALEF HWY

Mailing Address: PICARD ENT WAYNE GOOD & PLENTY  
RESTAURANT  
5 PINEKNOLL DR  
ROCHESTER, NH 03867

Parcel Number: 254-0012  
CAMA Number: 254-0012  
Property Address: 898 CALEF HWY

Mailing Address: PICARD PROPERTIES LLC  
5 PINEKNOLL DR  
ROCHESTER, NH 03867

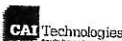
OWNER  
OF  
SUBJECT  
PARCEL

⑥ SURVEYOR: MCENEANEY SURVEY ASSOCIATES  
24 CHESTNUT STREET  
DOVER NH 03820

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www.cai-tech.com

11/4/2014

The property data available on this site is updated periodically. The Town of Barrington makes no warranties with regard to its accuracy or completeness and assumes no liability associated with the use of this data.

Page 1 of 1



Power Systems Division

Southworth-Milton, Inc.  
Exit 7 Interstate 89  
780 Route 103 East  
Warner, NH 03278  
Mail to: 554 Maple Street  
Hopkinton, NH 03229  
Tel: (603) 746.4671  
Fax: (603) 746.4630

Called on 4/1/14

Information for  
Generator  
Case 254-10 + (11)-RC-14-SR

Attn: Wayne Picard  
Good & Plenty Restaurant  
904 Calef Highway  
Barrington, NH 03825

603-973-2570 cell  
603-664-5797 Rest.  
603-335-7290 Home

January 28, 2014  
Quotation #14-000143

Subject: Standby Generator

Dear Wayne:

We are pleased to offer the following equipment for consideration:

One outdoor Olympian model G60LG LP Vapor fueled package generator set, rated 60 KW for emergency standby service at 120/240 volts, single phase, 3 wire, 60 Hz. The following accessories are included:

- EPA Certified Engine
- UL2200 listed generator set
- Structural steel base with linear vibration isolators
- Unit mounted radiator
- Unit mounted automatic digital start/stop control panel
- Electronic isochronous governor, 1/4 % regulation
- Lead acid battery set with rack and cables, mounted
- Battery charging alternator
- Battery charger, 10 amp rated, mounted
- Jacket water heater
- Unit mounted main circuit breaker
- Stainless steel flexible exhaust connector
- Critical grade exhaust silencer mounted within generator enclosure
- Sheet metal Level 1 sound attenuated generator enclosure, painted white
- Automatic transfer switch, rated 400 amps, 2 pole, NEMA 1 enclosed for indoor use, shipped loose
- Initial fill of lubricating oil and anti-freeze coolant solution
- Formal start up of the generator system, one day on-site
- Warranty will be two years from date of start up

(Continued)



**Net Price, F.O.B. Barrington, NH:**

**\$27,185.00**

Terms: Net thirty days with prior credit approval. Please note payment is due in full prior to start up.

**Notes:**

1. The fuel requirements for the mechanical design are 349.2 cubic feet per hour, with a pressure range of 11 – 14" of water column. It is recommended the unit have 13" of water column and a pressure drop no greater than 1" water column from no load to full load (measured at the generator gas inlet) for proper operation.
2. No specifications or drawings have been reviewed for this project.
3. Delivery via flatbed truck is included. Free and clear access to the site and offloading zone is required. Offloading, rigging and final placement by others.
4. Startup Checklist and confirmation of readiness must be returned prior to scheduling startup, otherwise additional labor charges may apply.
5. Commissioning/test quoted as normal working hours unless noted. Overtime, weekends, holidays will be charged at applicable rates.
6. Please provide all necessary tax exemption forms, if applicable, with the purchase order.
7. Fuel supplied by others.

**Estimated delivery:**

- Generator set – 8 to 10 weeks after release of order.
- Automatic transfer switch – 3 to 4 weeks after release of order.

This price is firm for sixty days. Please note sales tax, if applicable, is not included in our price. We appreciate this opportunity to quote you on your equipment requirements and hope to be favored with your valued order.

Sincerely,

Tom Gallo  
Power Solutions Representative

cc: Mike Gilbert, Power Systems Sales

# OLYMPIAN<sup>TM</sup>

## G60LG2

### 6.8L

## Industrial Spark-Ignited Generator Set

EPA Certified Stationary Emergency

G60LG2 60 kW

Standby Power Rating  
60 kW 75 kVA 60 Hz

Prime Power Rating\*  
54 kW 68 kVA 60 Hz



\*EPA Certified Prime ratings are not available in the U.S. or its Territories

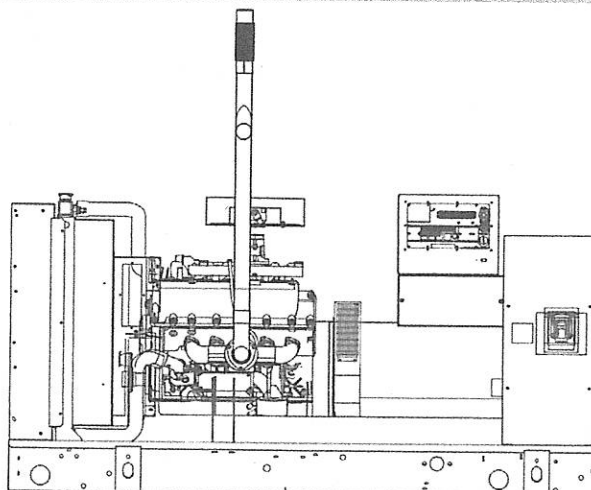


Image used for illustration purposes only

## Codes and Standards

Olympian products are designed to the following standards:



UL2200, UL508, UL142, UL498



NFPA70, 99, 110, 37



NEC700, 701, 702, 708



ISO9001, 8528, 3046, 7637, Pluses #2b, 4



NEMA ICS10, MG1, 250, ICS6, AB1



ANSI C62.41  
American National Standards Institute



oshp

IBC 2009, CBC 2010, IBC 2012, ASCE 7-05,  
ASCE 7-10, ICC-ES AC-156 (2012)

Prime power or standby service, Olympian Natural gas or Propane fuel generator sets deliver dependable, clean, economical power – even in the most demanding conditions – and Olympian gensets are available in a wide range of configurations with optional equipment.

Olympian generator sets are designed, engineered and manufactured for optimal performance. All major components are tested individually; once assembled, the entire unit is tested at and above 100% of rated load for safety and operation.

These complete, ready-to-run packages have another distinct advantage. They all come with the comprehensive service and support of Cat® dealers – beginning with prompt delivery and ongoing support throughout the life of the generator set.

# OLYMPIAN™

## LG Series

### Standard Features

#### ENGINE SYSTEM

##### General

- Oil Drain Extension
- Air Cleaner
- Fan Guard
- Stainless Steel flexible exhaust connection
- Critical Exhaust Silencer (enclosed only)
- Factory Filled Oil
- Radiator duct adapter (open set only)

##### Fuel System

- Primary and Secondary Fuel Shutoff
- Flexible Fuel Line - NPT Connection

##### Cooling System

- Closed Coolant Recovery System
- UV/Ozone resistant hoses
- Factory-installed Radiator
- Radiator drain extension
- 50/50 Ethylene glycol antifreeze

##### Engine Electrical System

- Battery charging alternator
- Battery Cables
- Battery Tray
- Solenoid activated starter motor
- Rubber-booted engine electrical connections

#### ALTERNATOR SYSTEM

- Class H insulation material
- 2/3 Pitch
- Skewed Stator
- Brushless Excitation
- Sealed Bearings
- Amortisseur winding
- Full load capacity alternator

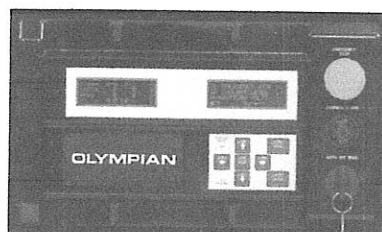
#### GENERATOR SET

- Internal Genset Vibration Isolation
- Separation of circuits - high/low voltage
- Separation of circuits - multiple breakers
- Wrapped Exhaust Piping
- Standard Factory Testing
- 2 Year Limited Warranty (Standby rated Units)
- 1 Year Warranty (Prime rated units)
- Silencer mounted in the discharge hood (enclosed only)

#### ENCLOSURE (if selected)

- Rust-proof fasteners with nylon washers to protect finish
- High performance sound-absorbing material
- Gasketed doors
- Stamped air-intake louvers
- Air discharge hoods for radiator-upward pointing
- Stainless steel lift off door hinges
- Stainless steel lockable handles

### CONTROL SYSTEM



#### Control Panel

- Digital H Control Panel - Dual 4x20 Display
- Programmable Crank Limiter
- 7-Day Programmable Exerciser
- Special Applications Programmable PLC
- RS-232/485
- All-Phase Sensing DVR
- Full System Status
- Utility Monitoring
- Low Fuel Pressure Indication
- 2-Wire Start Compatible
- Power Output (kW)
- Power Factor
- kW Hours, Total & Last Run

- Real/Reactive/Apparent Power
- All Phase AC Voltage
- All Phase Currents
- Oil Pressure
- Coolant Temperature
- Coolant Level
- Engine Speed
- Battery Voltage
- Frequency
- Date/Time Fault History (Event Log)
- Isochronous Governor Control
- Waterproof/sealed Connectors
- Audible Alarms and Shutdowns
- Not in Auto (Flashing Light)
- Auto/Off/Manual Switch
- E-Stop (Red Mushroom-Type)
- NFPA110 Level I and II (Programmable)
- Customizable Alarms, Warnings, and Events
- Modbus protocol
- Predictive Maintenance algorithm
- Sealed Boards
- Password parameter adjustment protection

- Single point ground
- 15 channel data logging
- 0.2 msec high speed data logging
- Alarm information automatically comes up on the display

#### Alarms

- Oil Pressure (Pre-programmable Low Pressure Shutdown)
- Coolant Temperature (Pre-programmed High Temp Shutdown)
- Coolant Level (Pre-programmed Low Level Shutdown)
- Low Fuel Pressure Alarm
- Engine Speed (Pre-programmed Over speed Shutdown)
- Battery Voltage Warning
- Alarms & warnings time and date stamped
- Alarms & warnings for transient and steady state conditions
- Snap shots of key operation parameters during alarms & warnings
- Alarms and warnings spelled out (no alarm codes)



## LG Series

### Configurable Options

#### ENGINE SYSTEM

- General
- ☐ Engine Block Heater
- ☐ Oil Heater
- ☐ Air Filter Restriction Indicator
- ☐ Stone Guard (Open Set Only)
- ☐ Critical Exhaust Silencer (Open Set Only / Standard on Ultra Low Emissions Option)
- Engine Electrical System
- ☐ 10A UL battery charger
- ☐ 2.5A UL battery charger
- ☐ Battery Warmer

#### ALTERNATOR SYSTEM

- ☐ Alternator Upsizing
- ☐ Anti-Condensation Heater
- ☐ Tropical coating
- ☐ Permanent Magnet Excitation

#### GENERATOR SET

- ☐ Extended Factory Testing (3 Phase Only)
- ☐ IBC Seismic Certification
- ☐ 8 Position Load Center
- ☐ 2 Year Extended Warranty
- ☐ 5 Year Warranty
- ☐ 5 Year Extended Warranty

#### CIRCUIT BREAKER OPTIONS

- ☐ Main Line Circuit Breaker
- ☐ 2nd Main Line Circuit Breaker
- ☐ Shunt Trip and Auxiliary Contact
- ☐ Electronic Trip Breakers

#### ENCLOSURE

- ☐ Standard Enclosure
- ☐ Level 1 Sound Attenuation
- ☐ Level 2 Sound Attenuation
- ☐ Steel Enclosure
- ☐ Aluminum Enclosure
- ☐ 150 MPH Wind Kit
- ☐ 12 VDC Enclosure Lighting Kit
- ☐ 120 VAC Enclosure Lighting Kit
- ☐ AC/DC Enclosure Lighting Kit
- ☐ Door Alarm Switch

#### CONTROL SYSTEM

- ☐ 21-Light Remote Annunciator
- ☐ Remote Relay Panel (8 or 16)
- ☐ Oil Temperature Sender with Indication Alarm
- ☐ Remote E-Stop (Break Glass-Type, Surface Mount)
- ☐ Remote E-Stop (Red Mushroom-Type, Surface Mount)
- ☐ Remote E-Stop (Red Mushroom-Type, Flush Mount)
- ☐ Remote Communication - Modem
- ☐ Remote Communication - Ethernet
- ☐ 10A Run Relay
- ☐ Ground fault indication and protection functions

### Engineered Options

#### ENGINE SYSTEM

- ☐ Coolant heater ball valves
- ☐ Fluid containment pans

#### ALTERNATOR SYSTEM

- ☐ 3rd Breaker Systems

#### GENERATOR SET

- ☐ Special Testing
- ☐ Battery Box

#### ENCLOSURE

- ☐ Motorized Dampers
- ☐ Enclosure Ambient Heaters

#### CONTROL SYSTEM

- ☐ Spare inputs (x4) / outputs (x4) - H Panel Only
- ☐ Battery Disconnect Switch

### Rating Definitions

**Standby** – Applicable for a varying emergency load for the duration of a utility power outage with no overload capability.

**Prime** – Applicable for supplying power to a varying load in lieu of utility for an unlimited amount of running time. A 10% overload capacity is available for 1 out of every 12 hours. The Prime Power option is only available on International applications.

Power ratings in accordance with ISO 8528-1, Second Edition dated 2005-06-01, definitions for Prime Power (PRP) and Emergency Standby Power (ESP).

**ENGINE SPECIFICATIONS****General**

|                          |                     |
|--------------------------|---------------------|
| Cylinder #               | 10                  |
| Type                     | V                   |
| Displacement - L (Cu In) | 6.8 (414.96)        |
| Bore - mm (in)           | 90.17 (3.55)        |
| Stroke - mm (in)         | 105.992 (4.17)      |
| Compression Ratio        | 9:01                |
| Intake Air Method        | Naturally Aspirated |
| Number of Main Bearings  | 7                   |
| Connecting Rods          | Forged              |
| Cylinder Head            | Aluminum            |
| Cylinder Liners          | No                  |
| Ignition                 | High Energy         |
| Pistons                  | Aluminum Alloy      |
| Crankshaft               | Steel               |
| Lifter Type              | Overhead Cam        |
| Intake Valve Material    | Steel Alloy         |
| Exhaust Valve Material   | Steel Alloy         |
| Hardened Valve Seats     | Yes                 |

**Engine Governing**

|                                     |            |
|-------------------------------------|------------|
| Governor                            | Electronic |
| Frequency Regulation (Steady State) | +/- 0.25%  |

**Lubrication System**

|                              |                             |
|------------------------------|-----------------------------|
| Oil Pump Type                | Gear                        |
| Oil Filter Type              | Full-flow spin-on cartridge |
| Crankcase Capacity - L (qts) | 5.7 (6)                     |

**Cooling System**

|                                 |                             |
|---------------------------------|-----------------------------|
| Cooling System Type             | Pressurized Closed Recovery |
| Water Pump Flow - gpm (lpm)     | 38 (144)                    |
| Fan Type                        | Pusher                      |
| Fan Speed (rpm)                 | 2300                        |
| Fan Diameter mm (in)            | 558 (22)                    |
| Coolant Heater Wattage          | 1500                        |
| Coolant Heater Standard Voltage | 120 V                       |

**Fuel System**

|                          |                            |
|--------------------------|----------------------------|
| Fuel Type                | Natural Gas, Propane Vapor |
| Carburetor               | Down Draft                 |
| Secondary Fuel Regulator | Standard                   |
| Fuel Shut Off Solenoid   | Standard                   |
| Operating Fuel Pressure  | 11" - 14" H2O              |

**Engine Electrical System**

|                             |                                 |
|-----------------------------|---------------------------------|
| System Voltage              | 12 VDC                          |
| Battery Charging Alternator | Standard                        |
| Battery Size                | See Battery Index<br>0161970SBY |
| Battery Voltage             | 12 VDC                          |
| Ground Polarity             | Negative                        |

**ALTERNATOR SPECIFICATIONS**

|                                     |               |
|-------------------------------------|---------------|
| Standard Model                      | 390           |
| Poles                               | 4             |
| Field Type                          | Revolving     |
| Insulation Class - Rotor            | H             |
| Insulation Class - Stator           | H             |
| Total Harmonic Distortion           | <5%           |
| Telephone Interference Factor (TIF) | <50           |
| Standard Excitation                 | Brushless     |
| Bearings                            | Sealed Ball   |
| Coupling                            | Flexible Disc |
| Prototype Short Circuit Test        | Yes           |

|                                    |              |
|------------------------------------|--------------|
| Voltage Regulator Type             | Full Digital |
| Number of Sensed Phases            | All          |
| Regulation Accuracy (Steady State) | +/- 0.25%    |

### POWER RATINGS

Single-Phase 120/240 VAC @1.0pf  
 Three-Phase 120/208 VAC @0.8pf  
 Three-Phase 120/240 VAC @0.8pf  
 Three-Phase 277/480 VAC @0.8pf  
 Three-Phase 346/600 VAC @0.8pf

| Natural Gas |           | Propane Vapor |           |
|-------------|-----------|---------------|-----------|
| 60 kW       | Amps: 250 | 60 kW         | Amps: 250 |
| 60 kW       | Amps: 208 | 60 kW         | Amps: 208 |
| 60 kW       | Amps: 180 | 60 kW         | Amps: 180 |
| 60 kW       | Amps: 90  | 60 kW         | Amps: 90  |
| 60 kW       | Amps: 72  | 60 kW         | Amps: 72  |

### STARTING CAPABILITIES (sKVA)

|            |     | sKVA vs. Voltage Dip |     |     |     |     |     |             |     |     |     |     |     |
|------------|-----|----------------------|-----|-----|-----|-----|-----|-------------|-----|-----|-----|-----|-----|
|            |     | 480 VAC              |     |     |     |     |     | 208/240 VAC |     |     |     |     |     |
| Alternator | kW  | 10%                  | 15% | 20% | 25% | 30% | 35% | 10%         | 15% | 20% | 25% | 30% | 35% |
| Standard   | 60  | 42                   | 63  | 83  | 104 | 125 | 146 | 32          | 47  | 62  | 78  | 94  | 110 |
| Upsize 1   | 70  | 59                   | 88  | 117 | 147 | 176 | 205 | 44          | 66  | 88  | 110 | 132 | 154 |
| Upsize 2   | 100 | 79                   | 118 | 157 | 197 | 236 | 275 | 59          | 89  | 118 | 148 | 177 | 206 |
| Upsize 3*  | 130 | 116                  | 174 | 232 | 290 | 348 | 406 | 87          | 131 | 174 | 218 | 261 | 305 |

\*Brushless excitation only

### FUEL CONSUMPTION RATES\*

| Natural Gas – ft³/hr (m³/hr) |            | Propane Vapor – ft³/hr (m³/hr) |             |
|------------------------------|------------|--------------------------------|-------------|
| Percent Load                 | Standby    | Percent Load                   | Standby     |
| 25%                          | 323 (9.1)  | 25%                            | 122.2 (3.5) |
| 50%                          | 554 (15.7) | 50%                            | 209.5 (5.9) |
| 75%                          | 748 (21.2) | 75%                            | 282.8 (8.0) |
| 100%                         | 923 (26.1) | 100%                           | 349.2 (9.9) |

\*Fuel supply installation must accommodate fuel consumption rates at 100% load.

### COOLING

|  |                     | Standby      |
|--|---------------------|--------------|
| Air Flow (inlet air combustion and radiator)       | ft³/min (m³/min)    | 5785 (163.8) |
| Coolant Flow per Minute                            | gpm (lpm)           | 38 (144)     |
| Coolant System Capacity                            | gal (L)             | 6.3 (23.9)   |
| Heat Rejection to Coolant                          | BTU/hr              | 252,000      |
| Max. Operating Air Temp on Radiator                | °F (°C)             | 122 (50)     |
| Max. Operating Ambient Temperature (before derate) | °F (°C)             | 104 (40)     |
| Maximum Radiator Backpressure                      | in H <sub>2</sub> O | 0.5          |

### COMBUSTION AIR REQUIREMENTS

|                                  | Standby   |
|----------------------------------|-----------|
| Flow at Rated Power cfm (m³/min) | 185 (5.2) |

### ENGINE

|                          |                | Standby    |
|--------------------------|----------------|------------|
| Rated Engine Speed       | rpm            | 1800       |
| Horsepower at Rated kW** | hp             | 96         |
| Piston Speed             | ft/min (m/min) | 1251 (381) |
| BMEP                     | psi            | 102        |

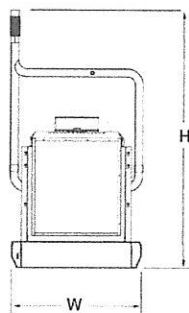
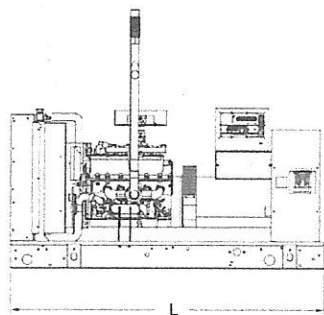
\*\* Refer to "Emissions Data Sheet" for maximum bHP for EPA and SCAQMD permitting purposes.

### EXHAUST

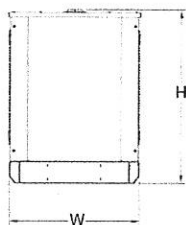
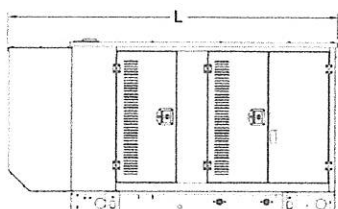
|                                   |              | Standby                     |
|-----------------------------------|--------------|-----------------------------|
| Exhaust Flow (Rated Output)       | cfm (m³/min) | 520 (14.7)                  |
| Maximum Recommended Back Pressure | inHg         | 1.5                         |
| Exhaust Temp (Rated Output)       | °F (°C)      | 1050 (565.6)                |
| Exhaust Outlet Size (Open Set)    | in           | 2.5" I.D. Flex (No muffler) |

Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a CAT® Dealer for additional details. All performance ratings in accordance with ISO3046, BS5514, ISO8528 and DIN6271 standards.

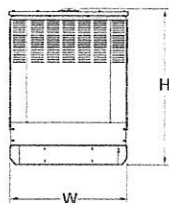
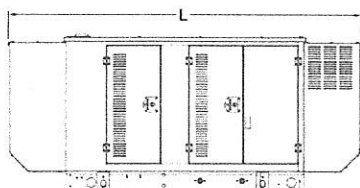


**OPEN SET (Includes Exhaust Flex)**

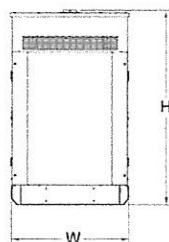
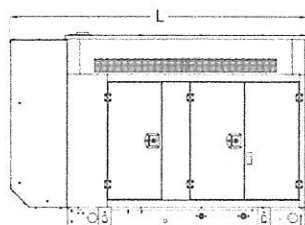
|                   |   |
|-------------------|---|
| L x W x H in (mm) | 92.9 (2360) x 40 (1015.9) x 75.4 (1914.1) |
| Weight lbs (kg)   | 1929 (875)                                |

**STANDARD ENCLOSURE**

|                   |  |
|-------------------|--|
| L x W x H in (mm) | 111.8 (2839.7) x 40.5 (1027.8) x 55.3 (1405.7) |
| Weight lbs (kg)   | Steel: 2370 (1075)<br>Aluminum: 2074.5 (941)   |

**LEVEL 1 ACOUSTIC ENCLOSURE**

|                   |  |
|-------------------|--|
| L x W x H in (mm) | 129.4 (3287.2) x 40.5 (1027.8) x 55.3 (1405.7) |
| Weight lbs (kg)   | Steel: 2590 (1175)<br>Aluminum: 2147 (974)     |

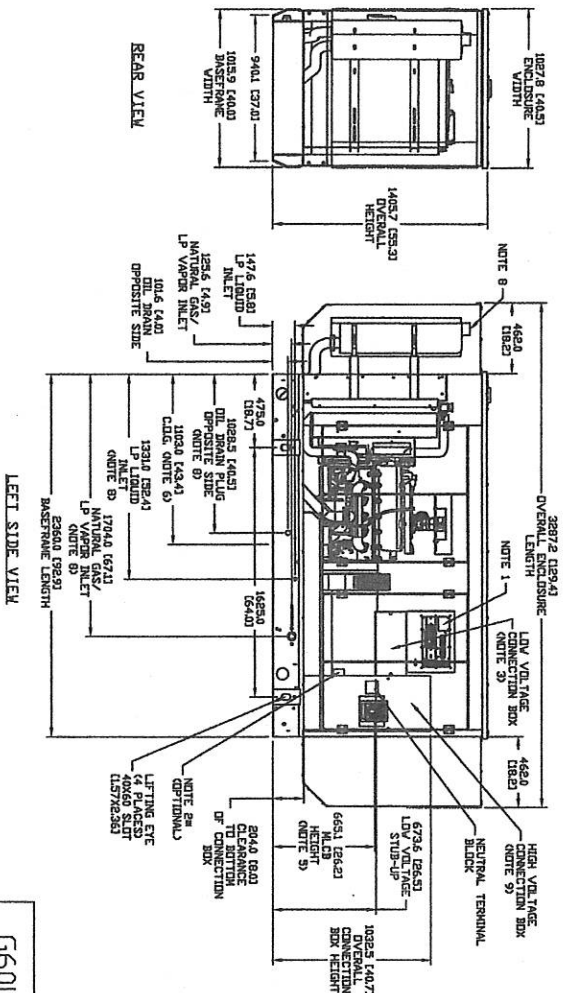
**LEVEL 2 ACOUSTIC ENCLOSURE**

|                   |  |
|-------------------|--|
| L x W x H in (mm) | 111.8 (2839.7) x 40.5 (1027.8) x 67.8 (1721.5) |
| Weight lbs (kg)   | Steel: 2811 (1275)<br>Aluminum: 2220 (1007)    |

Information contained in this publication may be considered confidential. Discretion is recommended when distributing.  
Materials and specifications are subject to change without notice.

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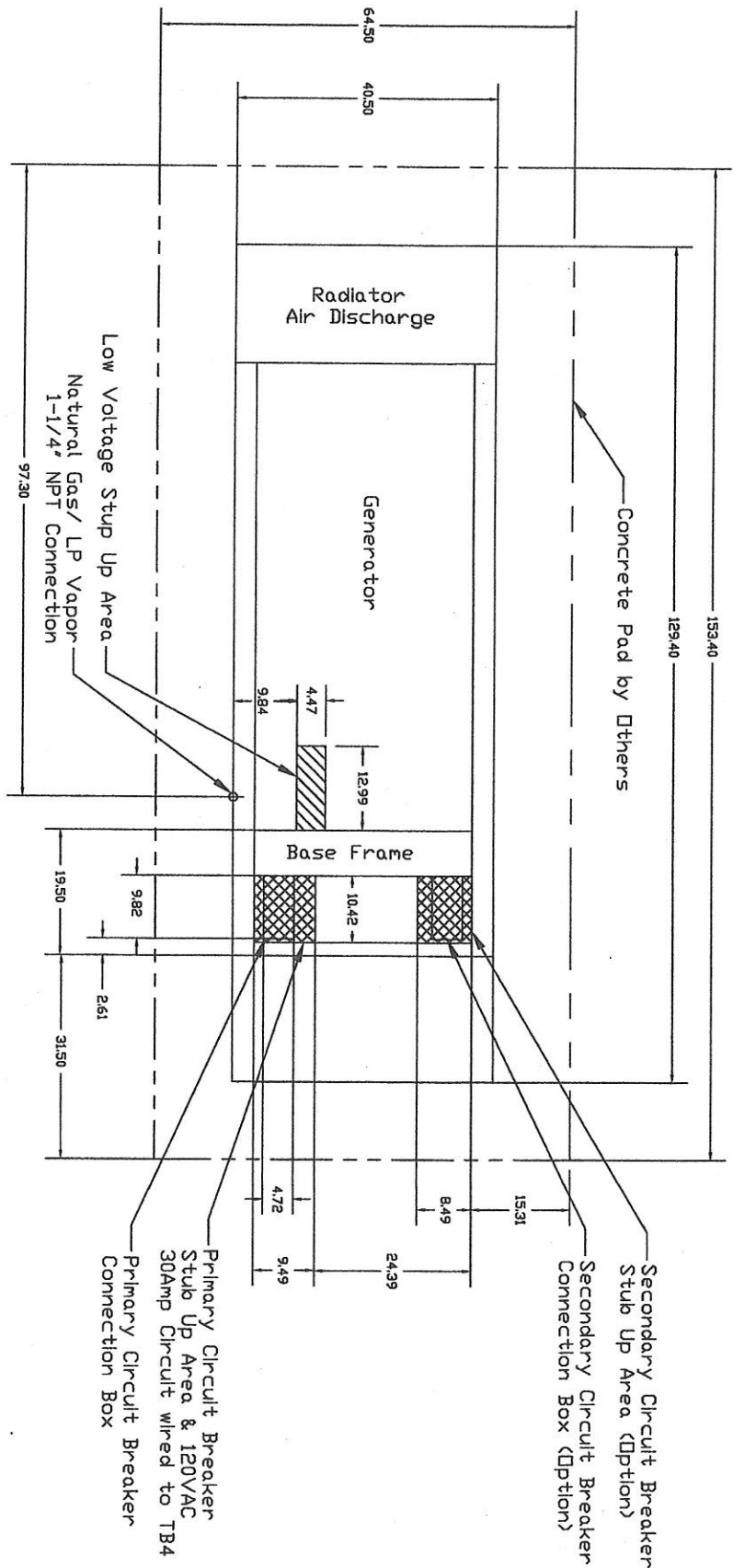
**NOTE**

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IN - GFCI OUTLET AND LOAD CENTER AVAILABLE US/CANADA ONLY

ISSUE DATE 3/2013

|   |                |  |      |           |                |  |      |       |     |           |      |         |            |  |     |  |  |  |   |
|---|----------------|--|------|-----------|----------------|--|------|-------|-----|-----------|------|---------|------------|--|-----|--|--|--|---|
| G60LG1, G60LG2, G70LG1, G70LG2  |                |  |      |           |                |  |      |       |     |           |      |         |            |  |     |  |  |  |   |
| 6.8 LITER DIRECT DRIVE  |                |  |      |           |                |  |      |       |     |           |      |         |            |  |     |  |  |  |   |
| NATURALLY ASPIRATED   |                |  |      |           |                |  |      |       |     |           |      |         |            |  |     |  |  |  |   |
| LEVEL 1 ACOUSTIC ENCLOSURE  |                |  |      |           |                |  |      |       |     |           |      |         |            |  |     |  |  |  |   |
| ISSUE DATE 3/2013   |                |  |      |           |                |  |      |       |     |           |      |         |            |  |     |  |  |  |   |
|  |                | <table border="1"> <tr> <td>FILE NAME</td> <td colspan="2">0J4198BY09.DWG</td> <td>SIZE</td> </tr> <tr> <td>SCALE</td> <td>NTS</td> <td>FIRST USE</td> <td>6.8L</td> </tr> <tr> <td>DWG NO.</td> <td colspan="2">0J4198BY09</td> <td>REV</td> </tr> <tr> <td></td> <td></td> <td></td> <td>B</td> </tr> </table> |      | FILE NAME | 0J4198BY09.DWG |  | SIZE | SCALE | NTS | FIRST USE | 6.8L | DWG NO. | 0J4198BY09 |  | REV |  |  |  | B |
| FILE NAME   | 0J4198BY09.DWG |  | SIZE |           |                |  |      |       |     |           |      |         |            |  |     |  |  |  |   |
| SCALE   | NTS            | FIRST USE  | 6.8L |           |                |  |      |       |     |           |      |         |            |  |     |  |  |  |   |
| DWG NO.   | 0J4198BY09     |  | REV  |           |                |  |      |       |     |           |      |         |            |  |     |  |  |  |   |
|   |                |  | B    |           |                |  |      |       |     |           |      |         |            |  |     |  |  |  |   |



- I. Primary Circuit Breaker Stub Up Area (All wiring in their own conduits):
  - A) Main Building Load
  - B) 120VAC, 30 Amp Circuit for Battery Charger, Block Heater and Optional Accessories Battery Heater, Alternator Heater, if Supplied
- II. Low Voltage Stub Up Area (All wiring in their own conduits):
  - A) Generator Start Wires
  - B) Remote Annunciator, if Supplied
- III. Secondary Circuit Breaker Stub Up Area- Optional

|                          |  |   |  |
|--------------------------|--|---|--|
| <b>MILTON CAT</b>        |  | <b>Model 660-670LG Level 1 SA Enclosure Pad</b> |  |
| POWER SYSTEMS DIVISION   |  | MILTON-CAT POWER SYSTEMS                        |  |
| ALL DIMENSIONS IN INCHES |  | DRAWN BY: _____                                 |  |
| NOT TO SCALE             |  | CHECKED: T. STALEY                              |  |
| DATE: 1/29/2014          |  | APPROVED: _____                                 |  |
| DWG No. XXXXXX           |  | SHEET 1 OF 1                                    |  |

| REVISION HISTORY |      |    |        |
|------------------|------|----|--------|
| REV.             | DATE | BY | REASON |
| 04               |      |    |        |
| 03               |      |    |        |
| 02               |      |    |        |
| 01               |      |    |        |
| 00               |      |    |        |

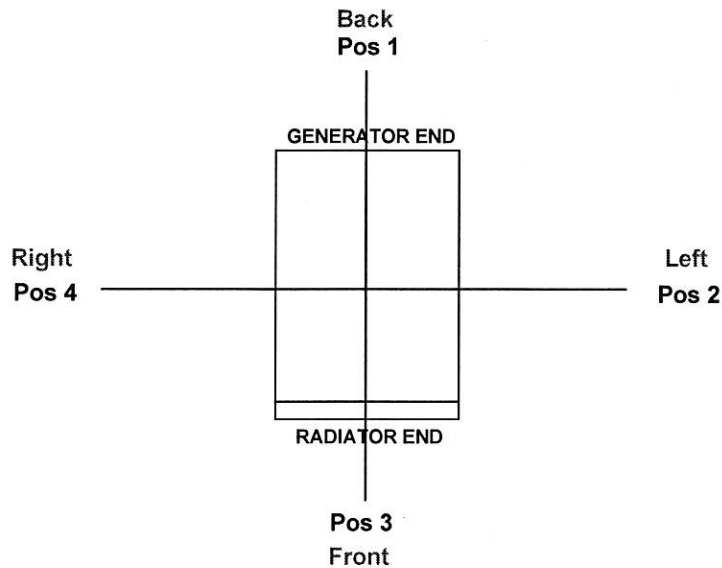


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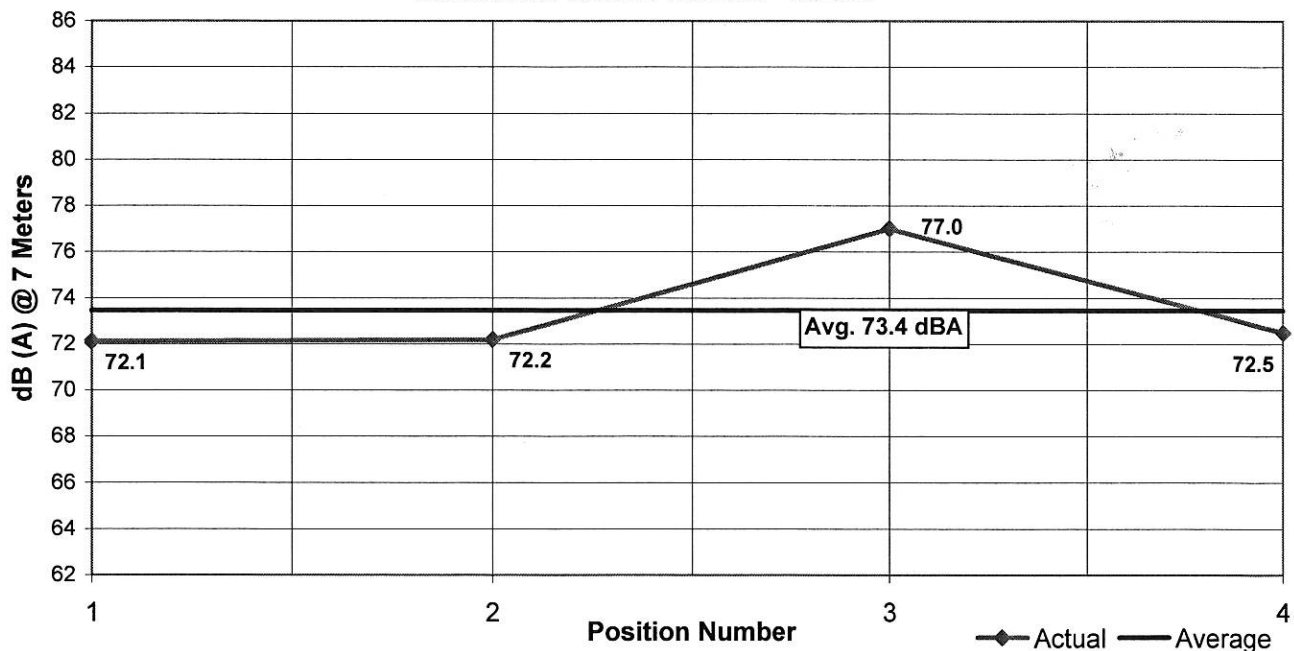
## Sound Test Results

Genset: G60LG 6.8L

Enclosure: Level 1 Acoustic Enclosure



### Measured Sound Levels - 60 Hz



#### Notes:

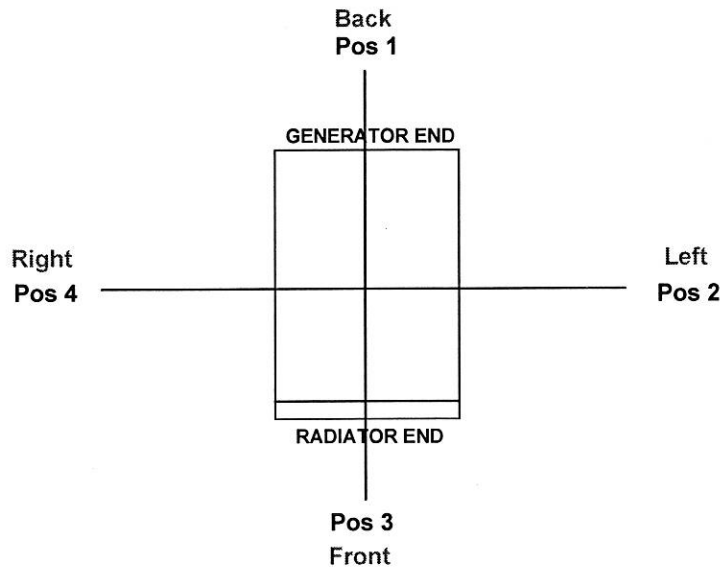
1. All positions 23 ft (7M) from side faces of generator set.
2. Generator operating at full load.
3. Test conducted on a 100 foot diameter asphalt surface.
4. Non-enclosed sets do not include exhaust sound during testing.

# OLYMPIAN™

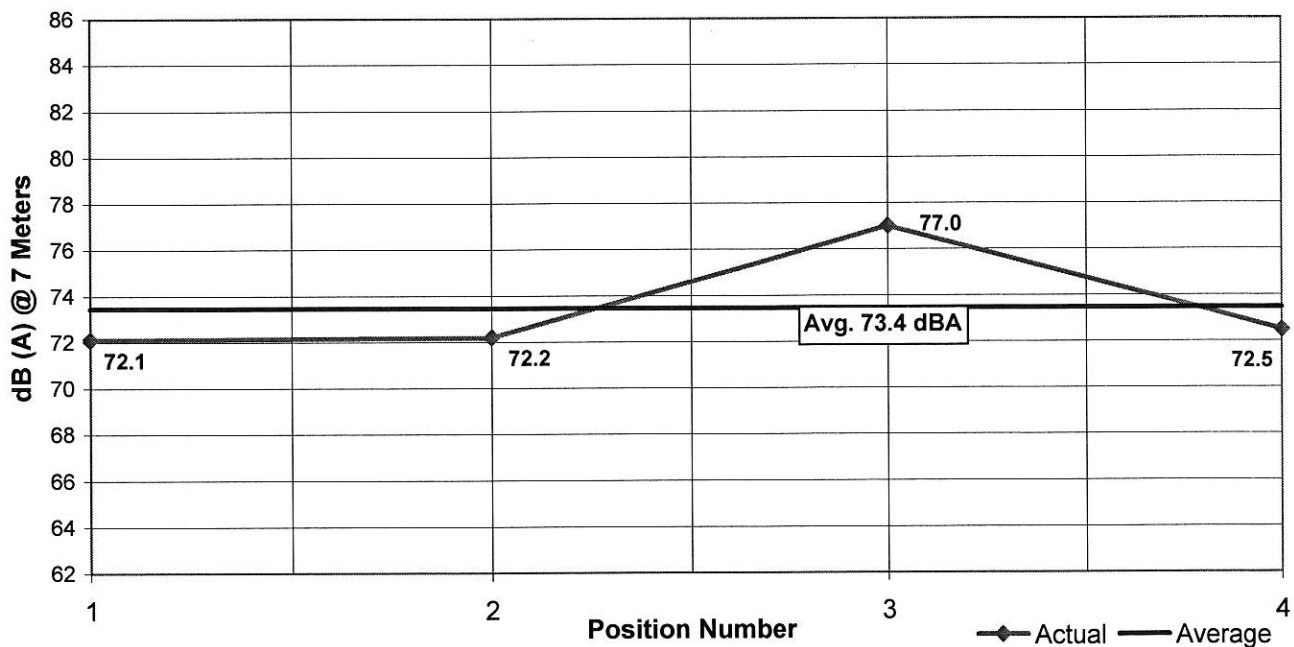
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