

4

3

SH 1/5

REV D

WINDCHILL VERSION

D.2

1

Notes:

- CONTROL PANEL, (OPTIONAL BATTERY CHARGER INSIDE).
- 120V, 20A GFCI & 250V, 15A OUTLET (OPTIONAL).
- CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB-UP AREA).
- BATTERIES (24 VOLT NEGATIVE GROUND SYSTEM).
- MAIN LINE CIRCUIT BREAKER (MLCB), AC LOAD LEADS & NEUTRAL CONNECTIONS (DIMENSIONS MAY VARY DUE TO UNIT CONFIGURATION)
- CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS. FOR WEIGHT AND CENTER OF GRAVITY DATA SEE NOTE 6, AND SHEET 4.5.
- ENGINE SERVICE CONNECTIONS:
INLET NATURAL GAS = 2-1/2" NPT FEMALE COUPLING
OIL DRAIN = 1/2" NPT FEMALE COUPLING
RADIATOR DRAIN = 3/8" BARB FITTING (ON RADIATOR)
FLEX PIPE OUTLET = 3.5" ANSI CLASS 125#/150#
CATALYST INLET/OUTLET = 5.0" ANSI CLASS 125#/150#
ELBOW INLET = 3.5" ANSI CLASS 125#/150#
ELBOW OUTLET = 5.0" ANSI CLASS 125#/150#
- SEE GENERATOR SIZING GUIDE FOR FUEL PIPE SIZING TO SUIT APPLICATION
- AUXILIARY AC CONNECTION FOR UNIT OPTIONS ARE LOCATED IN HIGH VOLTAGE CONNECTION BOX, UNLESS AN OPTIONAL LOAD CENTER IS INSTALLED.
- EXHAUST MAY BE ROTATED TO ALLOW CATALYST SILENCER TO POINT OUT TO THE RIGHT OR LEFT SIDE OF GENERATOR.
- GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND DISCHARGE AIR FROM THE RADIATOR IS NOT RECIRCULATED. SEE SPEC SHEET FOR MIN AIR FLOW AND MAX RESTRICTION REQUIREMENTS.
- BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
- EXHAUST SYSTEM MAXIMUM BACK PRESSURE = 10" H2O POST SILENCER.
- IF USED, INSTALL EXHAUST BLANKETS (SUPPLIED BY OTHERS) ALONG THIS LINE. O2 SENSOR TO BE PLACED THIS DISTANCE FROM THE TURBO FLANGE. BLANKETS MUST HAVE MINIMUM CONTINUOUS OPERATING TEMPERATURE OF 1500°F [816°C].
- CONNECT THE OPEN SET EXHAUST PER NFPA 37.
- BLANKETS SHOULD NOT COVER OXYGEN SENSOR.
- OXYGEN SENSOR MUST BE MOUNTED BETWEEN ENGINE OUTLET AND CATALYST INLET AS SHOWN. IF ELBOWS ARE REQUIRED, ONLY TWO ELBOWS PER EXHAUST LINE MAY BE USED. OXYGEN SENSOR MUST BE LOCATED AT LEAST 508MM [20IN] DOWNSTREAM OF ANY ELBOW. PIPES WITH SMALLER DIAMETERS THAN THOSE OF THE PIPES PROVIDED MAY NOT BE USED.
- CATALYST SILENCER (FOR EPA UNITS) MUST BE MOUNTED IN DESCRIBED POSITION. FAILING TO FOLLOW THESE INSTRUCTIONS WHEN INSTALLING A CERTIFIED ENGINE IN A PIECE OF STATIONARY EQUIPMENT VIOLATES FEDERAL LAW 40 CFR 1068.105(b), SUBJECT TO FINES OR PENALTIES AS DESCRIBED IN THE CLEAN AIR ACT.
- BOLTS OR STUDS USED TO MOUNT UNIT TO PAD SHALL BE 5/8 - 11 GRADE 5.
- IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS AND REGULATIONS.

TABLE 1		
DIM	OPEN SET, L1A, L2A ENCLOSED	L3A ENCLOSED
A	486 [19.1]	731 [28.8]
B	2660 [104.7]	2803 [110.4]
C	2550 [100.4]	2626 [103.4]
D	2455 [96.7]	2531 [99.6]

TABLE 2		
DIM	SINGLE (SG/PG)	MULTIPLE (MG/WG)
E	644 [25.3]	977 [38.5]
F	661 [26.0]	429 [16.9]

EXHAUST OUTLET
NOTE 17
DIM D FLEX PIPE (TABLE 1)
235 [9.3] FLEX EXH
ALT. AIR OUT (BOTH SIDES)
NOTE 4

SEE MAX AND MIN DIM (NOTE 7)
2110±305 [83.1±12.0] CENTERLINE DISTANCE FROM TURBO FLANGE TO O2 SENSOR (NOTE 13,16)
441 [17.4]
O2 SENSOR (NOTE 15, 16)
ELBOW INCLUDED IN EXHAUST KIT (NOTE 7, 9)
NOTE 1
LOW VOLTAGE CONNECTION BOX (NOTE 3)
1250 [49.2] PRIMARY HIGH VOLTAGE CONNECTION BOX HEIGHT (NOTE 8)
829 [32.6] MLCB HEIGHT (NOTE 5)
NOTE 7
NOTE 7
NOTE 19
TURBO FLANGE
RADIATOR DRAIN (NOTE 7)
OIL DRAIN (NOTE 7)
GFCI OUTLET LOCATION (OPTIONAL, NOTE 2)
DIM E LOW VOLT CONN BOX (TABLE 2)
DIM F CUSTOMER HIGH VOLTAGE CONNECTION (NOTE 5, TABLE 2)
Ø 63.5 [2.50] 4X LIFTING EYE

DIM X C.O.G. (NOTE 6, SHEET 4,5)
SECONDARY HIGH VOLTAGE CONNECTION BOX (OPTIONAL)
LOAD CENTER (OPTIONAL)
1675 [66.0] FLEX EXHAUST
DIM Y C.O.G. NOTE 6 SHEET 4,5
1088 [42.8] AIR DUCT ADAPTER CENTERED (NOTE 10)
1194 [47.0] AIR DUCT ADAPTER (NOTE 10)
1725 [67.9] OVERALL HEIGHT
389 [15.3] AIR DUCT ADAPTER (NOTE 10)
1346 [53.0]
DIM Z C.O.G. NOTE 6 SHEET 4,5
111 [4.4]
DIM A (TABLE 1)
DIM B (TABLE 1)
DIM C (TABLE 1)

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DIMENSIONS ARE IN MILLIMETERS [INCHES]

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL**GENERAC**

TITLE

OPEN SET
G14.2L 50Hz AND 60Hz
SG/MG:230KW-300KW
PG/WG:147-184

ISSUE DATE: 11/26/14

SIZE	CAGE NO	DWG NO	REV
B	N/A	10000039616	D

SCALE 0.016 WT-KG SHEET 1 of 5

INSTALLATION DRAWING

4

3

2

1

4

3

SH

2/5

REV

D

WINDCHILL VERSION

D.2

1

RECOMMENDED ELECTRICAL STUB-UP
(HIGH VOLTAGE STUB-UP)
AC LOAD LEAD CONDUIT FOR
PERMANENT MAGNET EXCITATION
CONNECTION BOX

(LOW VOLTAGE STUB-UP)

B

B

A

A

2X 3255 [128.2]

2X 2441 [96.1]

2X 1628 [64.1]

2X 814 [32.0]

100 [3.9]

295 [11.61] TYP

70.5 TYP [2.78]

160 TYP [6.30]

1450 [57.1] OVERALL WIDTH

1296 [51.0]

77 [3.0]

10X \varnothing 16.7 [.66] MOUNTING HOLES (SEE NOTE 18)

LOW VOLTAGE STUB-UP AREA, SURFACE MOUNTED (SEE NOTE 3)

350 [13.8]

150 [5.9]

2X 355 [14.0]

116 [4.6]

2X 385 [15.2] OPEN AREA FOR STUB-UP

2X DIM G (TABLE 2)

250 [9.9]

325 [12.8]

DIM H (TABLE 2)

3455 [136.0] OVERALL LENGTH

SECONDARY CB CONNECTION BOX OPENING (OPTIONAL)

70.5 TYP [2.78]

160 TYP [6.30]

SECONDARY HIGH VOLTAGE STUB-UP AREA (OPTIONAL) W/ GLAND PLATE

PRIMARY HIGH VOLTAGE STUB-UP AREA W/ GLAND PLATE

PRIMARY CB CONNECTION BOX OPENING

TABLE 2

MODEL	DIM G	DIM H
SG/MG 230/250/275/300	299 [11.8]	848 [33.4]
SG/MG 275/300 UPSIZE	199 [7.8]	748 [29.4]

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DIMENSIONS ARE IN MILLIMETERS [INCHES]

GENERAC

TITLE

STUB-UP VIEW
G14.2L 50Hz AND 60Hz
230KW-300KW OPEN SET, L1A, L2A

ISSUE DATE: 11/26/14

SIZE	CAGE NO	DWG NO	REV
B	N/A	10000039616	D

SCALE	WT-KG	SHEET
0.075		2 of 5

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL

INSTALLATION DRAWING

4

3

2

1

4

3

SH

3/5

REV

D

WINDCHILL VERSION

D.2

1

RECOMMENDED ELECTRICAL STUB-UP
(HIGH VOLTAGE STUB-UP)
AC LOAD LEAD CONDUIT FOR
PERMANENT MAGNET EXCITATION
CONNECTION BOX

(LOW VOLTAGE STUB-UP)

2X 3865 [152.2]

2X 3092 [121.7]

2X 2319 [91.3]

2X 1546 [60.9]

2X 773 [30.4]

100 [3.9]

SECONDARY CB CONNECTION BOX OPENING (OPTIONAL)

350 TYP [13.8]

188 TYP [7.4]

120.5 TYP [4.74]

130 TYP [5.1]

SECONDARY HIGH VOLTAGE STUB-UP AREA (OPTIONAL) W/ GLAND PLATE

PRIMARY CB CONNECTION BOX OPENING

PRIMARY HIGH VOLTAGE STUB-UP AREA W/ GLAND PLATE

1219 [48.0]

142 [5.6]

223 [8.7]

103 [4.1]

LOW VOLTAGE STUB-UP AREA, SURFACE MOUNTED (SEE NOTE 3)

973 [38.3] TYP

1137 [44.8]

165 [6.5]

1606 [63.2] OVERALL WIDTH

1500 [59.0]

1296 [51.0]

12X \varnothing 16.7 [.66] MOUNTING HOLES (NOTE 18)

4065 [160.0] OVERALL LENGTH

194 [7.6]

317 [12.5] TYP

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL

GENERAC

TITLE

STUB-UP VIEW
G14.2L 50Hz AND 60Hz
230-300KW L3A

ISSUE DATE: 11/26/14

SIZE	CAGE NO	DWG NO	REV
B	N/A	10000039616	D

SCALE	WT-KG	SHEET
0.075		3 of 5

INSTALLATION DRAWING

4

3

2

1

OPEN SET

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG/MG184/230, 200/250, PG/WG147/184, 160/200	600V	2,669 kg [5,883 lbs]	1,874 [73.8]	690 [27.2]	668 [26.3]
SG/MG184/230, 200/250, PG/WG147/184, 160/200	208V, 240V, 480V	2,677 kg [5,901 lbs]	1,871 [73.7]	690 [27.2]	
SG/MG184/230, 200/250, PG/WG147/184, 160/200	600V (UPSIZED)	2,729 kg [6,015 lbs]	1,851 [72.9]	687 [27.1]	
SG/MG184/230, 200/250, PG/WG147/184, 160/200	208V, 240V, 480V (UPSIZED)	2,736 kg [6,031 lbs]	1,849 [72.8]	687 [27.1]	

NOTE: CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS

STD ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG/MG184/230, 200/250, PG/WG147/184, 160/200	600V	3,378 kg [7,448 lbs]	1,999 [78.7]	810 [31.9]	634 [24.9]
SG/MG184/230, 200/250, PG/WG147/184, 160/200	208V, 240V, 480V	3,386 kg [7,465 lbs]	1,997 [78.6]	809 [31.8]	
SG/MG184/230, 200/250, PG/WG147/184, 160/200	600V (UPSIZED)	3,438 kg [7,580 lbs]	1,979 [77.9]	805 [31.7]	
SG/MG184/230, 200/250, PG/WG147/184, 160/200	208V, 240V, 480V (UPSIZED)	3,445 kg [7,596 lbs]	1,977 [77.8]	805 [31.7]	

STD ENCLOSURE, ALUMINUM

WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
3,018 kg [6,654 lbs]	1,966 [77.4]	762 [30.0]	628 [24.7]
3,026 kg [6,671 lbs]	1,963 [77.3]	761 [30.0]	
3,078 kg [6,786 lbs]	1,944 [76.5]	758 [29.8]	
3,085 kg [6,801 lbs]	1,942 [76.5]	758 [29.8]	

L1A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG/MG184/230, 200/250, PG/WG147/184, 160/200	600V	3,588 kg [7,911 lbs]	1,906 [75.0]	834 [32.8]	636 [25.0]
SG/MG184/230, 200/250, PG/WG147/184, 160/200	208V, 240V, 480V	3,596 kg [7,928 lbs]	1,904 [75.0]	833 [32.8]	
SG/MG184/230, 200/250, PG/WG147/184, 160/200	600V (UPSIZED)	3,648 kg [8,043 lbs]	1,889 [74.4]	829 [32.6]	
SG/MG184/230, 200/250, PG/WG147/184, 160/200	208V, 240V, 480V (UPSIZED)	3,655 kg [8,059 lbs]	1,887 [74.3]	829 [32.6]	

L1A ENCLOSURE, ALUMINUM

WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
3,108 kg [6,853 lbs]	1,920 [75.6]	776 [30.5]	630 [24.8]
3,116 kg [6,870 lbs]	1,917 [75.5]	775 [30.5]	
3,168 kg [6,985 lbs]	1,900 [74.8]	772 [30.4]	
3,175 kg [7,000 lbs]	1,897 [74.7]	771 [30.4]	

L2A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG/MG184/230, 200/250, PG/WG147/184, 160/200	600V	3,848 kg [8,484 lbs]	2,032 [80.0]	1,003 [39.5]	638 [25.1]
SG/MG184/230, 200/250, PG/WG147/184, 160/200	208V, 240V, 480V	3,856 kg [8,502 lbs]	2,029 [79.9]	1,002 [39.5]	
SG/MG184/230, 200/250, PG/WG147/184, 160/200	600V (UPSIZED)	3,908 kg [8,616 lbs]	2,014 [79.3]	996 [39.2]	
SG/MG184/230, 200/250, PG/WG147/184, 160/200	208V, 240V, 480V (UPSIZED)	3,915 kg [8,632 lbs]	2,012 [79.2]	995 [39.2]	

L2A ENCLOSURE, ALUMINUM

WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
3,220 kg [7,099 lbs]	1,985 [78.2]	867 [34.1]	631 [24.9]
3,228 kg [7,117 lbs]	1,983 [78.1]	867 [34.1]	
3,280 kg [7,231 lbs]	1,965 [77.3]	861 [33.9]	
3,287 kg [7,247 lbs]	1,962 [77.3]	861 [33.9]	

L3A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG/MG184/230, 200/250, PG/WG147/184, 160/200	600V	4,917 kg [10,840 lbs]	2,172 [85.5]	1,085 [42.7]	722 [28.4]
SG/MG184/230, 200/250, PG/WG147/184, 160/200	208V, 240V, 480V	4,925 kg [10,857 lbs]	2,169 [85.4]	1,083 [42.6]	
SG/MG184/230, 200/250, PG/WG147/184, 160/200	600V (UPSIZED)	4,977 kg [10,972 lbs]	2,155 [84.8]	1,079 [42.5]	
SG/MG184/230, 200/250, PG/WG147/184, 160/200	208V, 240V, 480V (UPSIZED)	4,984 kg [10,990 lbs]	2,153 [84.8]	1,079 [42.5]	

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TITLE WEIGHT AND CENTER OF GRAVITY G14.2L 50Hz AND 60Hz 230KW-250KW

ISSUE DATE: 11/26/14		SCALE N/A		WT-KG		SHEET 4 of 5	
SIZE B	CAGE NO N/A	DWG NO 10000039616	REV D				

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ELECTRONICALLY APPROVED INSIDE WINDCHILL

INSTALLATION DRAWING

OPEN SET

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG/MG 275/300	208V ,240V, 480V	2,822 kg [6,200 lbs]	1,799 [70.8]	752 [29.6]	671 [26.4]
SG/MG 275/300	600V	2,852 kg [6,280 lbs]	1,789 [70.4]	751 [29.6]	
SG/MG 275/300	208V UPSIZE	2,988 kg [6,587 lbs]	1,728 [68.0]	750 [29.5]	

NOTE:
CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS

STD ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG/MG 275/300	208V ,240V, 480V	3,425 kg [7,535 lbs]	1,975 [77.8]	853 [33.6]	678 [26.7]
SG/MG 275/300	600V	3,432 kg [7550 lbs]	1,965 [77.4]	853 [33.6]	
SG/MG 275/300	208V UPSIZE	3,591 kg [7,916 lbs]	1,941 [76.4]	851 [33.5]	

STD ENCLOSURE, ALUMINUM

WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
3,172 kg [6,978 lbs]	1,894 [74.6]	813 [32.0]	679 [26.7]
3,202 kg [7,044 lbs]	1,885 [74.2]	811 [31.9]	
3,338 kg [7,359 lbs]	1,824 [71.8]	810 [31.9]	

L1A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG/MG 275/300	208V ,240V, 480V	3,532 kg [7,770 lbs]	1,934 [76.1]	850 [33.5]	678 [26.7]
SG/MG 275/300	600V	3,562 kg [7,836 lbs]	1,925 [75.8]	850 [33.5]	
SG/MG 275/300	208V UPSIZE	3,753 kg [8,273 lbs]	1,906 [75.0]	849 [33.4]	

L1A ENCLOSURE, ALUMINUM

WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
3,262 kg [7,176 lbs]	1,853 [73.0]	823 [32.4]	678 [26.7]
3,292 kg [7,242 lbs]	1,845 [72.6]	822 [32.4]	
3,459kg [7,625 lbs]	1,798 [70.1]	821 [32.3]	

L2A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG/MG 275/300	208V ,240V, 480V	4,002 kg [8,804 lbs]	1,973 [77.7]	1,029 [40.5]	677 [26.7]
SG/MG 275/300	600V	4,032 kg [8,870 lbs]	1,965 [77.4]	1,027 [40.4]	
SG/MG 275/300	208V UPSIZE	4,168 kg [9,188 lbs]	1,945 [76.6]	1,025 [40.4]	

L2A ENCLOSURE, ALUMINUM

WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
3,374 kg [7,423 lbs]	1,917 [75.5]	907 [35.7]	677 [26.7]
3,404 kg [7,490 lbs]	1,908 [75.1]	905 [35.6]	
3,570 kg [7,870 lbs]	1,868 [73.5]	904 [35.6]	

L3A ENCLOSURE, STEEL

MODEL	VOLTAGE	WEIGHT	CENTER OF GRAVITY DIM X	CENTER OF GRAVITY DIM Y	CENTER OF GRAVITY DIM Z
SG/MG 275/300	208V, 240V, 480V	4,862 kg [10,718 lbs]	2,141 [84.3]	1,059 [41.6]	790 [31.1]
SG/MG 275/300	600V	4,891 kg [10,779 lbs]	2,134 [84.0]	1,057 [41.6]	
SG/MG 275/300	208V UPSIZE	5,026 kg [11,080 lbs]	2,116 [83.3]	1,054 [41.5]	

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TITLE
WEIGHT AND CENTER OF GRAVITY
G14.2L 50Hz AND 60Hz
275KW-300KW

ISSUE DATE: 11/26/14

SIZE B CAGE NO N/A DWG NO 10000039616 REV D

SCALE N/A WT-KG SHEET 5 of 5

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ELECTRONICALLY APPROVED
INSIDE WINDCHILL

INSTALLATION DRAWING