Honeywell | Generators

48 / 60 / 80 kW Liquid-Cooled Generator Sets

Standby Power Rating

HG04845 – (Aluminium, Dark Gray) – 48 kW 60 Hz

HG06045 – (Aluminium, Dark Gray) – 60 kW 60 Hz

HG08045 – (Aluminium, Dark Gray) – 80 kW 60 Hz

INCLUDES

- **Innovative engine design and rigorous testing:** Total commitment to component testing, reliability testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards allows users to choose Honeywell generators with the confidence that these systems will provide superior performance.
- **PrecisionPower™ 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 and microchip based appliances, such as variable speed HVAC.
- **Solid-State, Frequency Compensated Voltage Regulation:** This state-of-the-art, power maximizing regulation system is the standard on all Honeywell 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. Provides precise digital voltage regulation for sensitive electronics.
- **Single Source Service Response:** Our extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electrical component.
- **Honeywell Transfer Switches:** The Honeywell generator line is offered with its own transfer systems and controls for total system compatibility.
- **Mobile Link® Wi-Fi Connectivity:** Honeywell standby generators are Wi-Fi enabled. Now users can remotely connect and monitor generator status on a smartphone, tablet, or PC from anywhere in the world using Mobile Link's free service
- **18 in (457 mm) Offset:** Listed and labeled by the Southwest Research Institute allowing installation as close as 18 in (457 mm) to a structure. **Must be located away from doors, windows, and fresh air intakes and in accordance with local codes.

FEATURES & BENEFITS

- PrecisionPower™ Electrical Technology
- Two-line multilingual digital LCD controller (English, Spanish, French, Portuguese)
- Isochronous electronic governor
- UV/Ozone resistant hoses
- System and status & maintenance interval LED indicators
- Closed coolant recovery system
- Voltage regulation designed for sensitive electronics
- Electronic engine control module
- Smart battery charger
- Sound attenuated aluminum enclosure
- UL 2200 Listed
- Natural Gas (NG) or Liquid Propane (LP) Gas operation
- 5 Year premium limited warranty
- Field convertible fuel type with no mechanical adjustment required

48 / 60 / 80 kW Technical Specifications

GENERATOR SPECIFICATIONS	48 KW	60 / 80 KW
Type	Synchronous	
Rotor insulation class	F	H
Stator insulation class	H	
Telephone Interference Factor (TIF)	<50	
Alternator output leads 1-Phase	4 wire	
Alternator output leads 3-Phase	6 wire	
Bearings	Sealed ball	
Coupling	Flexible disc	
Excitation system	Direct	
VOLTAGE REGULATION		
Type	Electronic	
Sensing	Single-phase	
Regulation	Designed for sensitive electronics	
GOVERNOR SPECIFICATIONS		
Type	Electronic	
Frequency regulation	Isochronous	
Steady state regulation	Designed for sensitive electronics	
ELECTRICAL SYSTEM		
Battery charge alternator	12 volt 30 amp	
Static battery charger	2.5 amp	
Recommended battery	Group 27F, 725CCA	
System voltage (battery not included)	12 volts	
GENERATOR FEATURES		
Revolving field heavy duty generator Directly connected to the engine Operating temperature rise 248 °F (120 °C) above a 104 °F (40 °C) ambient Class H insulation is NEMA rated Class F insulation is NEMA rated All models fully prototype tested		
ENCLOSURE FEATURES		
Aluminum weather protective enclosure	Provides protection against mother nature. Electrostatically applied textured epoxy paint for added durability.	
Enclosed critical grade muffler	Quiet, critical grade muffler is mounted inside the unit to prevent injuries.	
Small, compact, attractive	Makes for an easy, eye appealing installation.	
SAE	Sound attenuated enclosure ensures quiet operation.	

ENGINE SPECIFICATIONS	48 KW	60 / 80 KW
Make	Generac	
Type	In-line	
Cylinders	4	
Displacement (L)	4.5	
Bore (in / mm)	4.5 / 114.3	
Stroke (in / mm)	4.25 / 107.95	
Compression ratio	9.9:1	8.85:1
Intake air system	Naturally aspirated	Turbocharged and aftercooled
Lifter type	Hydraulic	
ENGINE LUBRICATION SYSTEM		
Oil pump type	Gear	
Oil filter type	Full flow spin-on cartridge	
Crankcase capacity (qt / L)	11.6 / 11	
ENGINE COOLING SYSTEM		
Type	Closed	
Water pump	Belt driven	
Fan speed (rpm)	2,100	
Fan diameter (in / cm)	20 / 50.8	
Fan mode	Pusher	
FUEL SYSTEM		
Fuel type	Natural gas, propane vapor	
Fuel shut off solenoid	Standard	
NG operating fuel pressure	3.5–14 in water column / 0.87–3.48 kPa	
LP operating fuel pressure	7–14 in water column / 1.74–3.48 kPa	

48 / 60 / 80 kW Operating Data

GENERATOR OUTPUT VOLTAGE/KW – 60 HZ

		KW LPG	AMP LPG	KW NATURAL GAS	AMP NATURAL GAS	CB SIZE (BOTH)
HG04845	120/240 V, 1Ø, 1.0 pf	48	200	48	200	200
	120/208 V, 3Ø, 0.8 pf	48	167	48	167	175
	120/240 V, 3Ø, 0.8 pf	48	144	48	144	150
	277/480 V, 3Ø, 0.8 pf	48	72	48	72	80
HG06045	120/240 V, 1Ø, 1.0 pf	60	250	60	250	300
	120/208 V, 3Ø, 0.8 pf	60	208	60	208	200
	120/240 V, 3Ø, 0.8 pf	60	180	60	180	200
	277/480 V, 3Ø, 0.8 pf	60	90	60	90	100
HG08045	120/240 V, 1Ø, 1.0 pf	75	312	80	333	400
	120/208 V, 3Ø, 0.8 pf	75	260	80	277	300
	120/240 V, 3Ø, 0.8 pf	75	226	80	240	300
	277/480 V, 3Ø, 0.8 pf	75	113	80	120	150

SURGE CAPACITY IN AMPS

		Voltage Dip @ < 0.4 pf	
		15%	30%
HG04845	120/240 V, 1Ø	100	300
	120/208 V, 3Ø	118	242
	120/240 V, 3Ø	145	260
	277/480 V, 3Ø	64	123
HG06045	120/240 V, 1Ø	150	413
	120/208 V, 3Ø	135	313
	120/240 V, 3Ø	117	289
	277/480 V, 3Ø	54	122
HG08045	120/240 V, 1Ø	283	600
	120/208 V, 3Ø	236	500
	120/240 V, 3Ø	204	432
	277/480 V, 3Ø	102	192

Note: Fuel pipe must be sized for full load.

For BTU content, multiply ft^3/hr x 2,520 (LP) or ft^3/hr x 1,000 (NG)

For megajoule content, multiply m^3/hr x 93.15 (LP) or m^3/hr x 37.26 (NG)

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

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046-1. Design and specifications are subject to change without notice.

ENGINE FUEL CONSUMPTION

		Natural Gas			Propane	
		(ft^3/hr)	(m^3/hr)	(gal/hr)	(ft^3/hr)	(L/hr)
HG04845	Exercise cycle	101	2.86	0.67	24.5	2.54
	25% of rated load	201	5.7	2.88	104.7	10.9
	50% of rated load	336	9.5	4.16	151.3	15.7
	75% of rated load	447	12.7	5.28	192	20
	100% of rated load	604	17.1	6.61	240.4	25
HG06045	Exercise cycle	103	2.9	0.9	33.2	3.5
	25% of rated load	257	7.3	2.1	78	8.1
	50% of rated load	432	12.2	4.4	161.2	16.8
	75% of rated load	618	17.5	6.8	247.2	25.7
	100% of rated load	808	22.9	8.4	305.6	31.8
HG08045	Exercise cycle	103	2.9	0.9	33.2	3.5
	25% of rated load	292	8.3	2.6	93.6	9.7
	50% of rated load	534	15.1	5.7	208.8	21.7
	75% of rated load	799	22.6	8.3	303.2	31.5
	100% of rated load	1063	30.1	10.8	393.2	40.9

48 / 60 / 80 kW Operating Data

ENGINE COOLING

MODEL	48 KW	60 / 80 KW
Air flow (inlet air including alternator and combustion air in cfm / cmm)	2829 / 80.1	3197 / 90.5
System coolant capacity (gal / L)	2.9 / 11	4.5 / 17
Heat rejection to coolant (BTU per hr / MJ per hr)	201,060 / 212	204,570
Maximum operation air temperature on radiator (°F / °C)	150 / 66	
Maximum ambient temperature (°F / °C)	140 / 60	

COMBUSTION REQUIREMENTS

Flow at rated power (scfm / cmm)	92.7 / 2.6	170.4 / 4.8

SOUND EMISSIONS

Sound output in dB(A) at 23 ft (7 m)*	68	68

*Sound levels are measured in exercise mode and from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters.

EXHAUST

Exhaust flow at rated output (scfm / cmm)	104 / 2.9	181 / 5.1
Exhaust temperature at muffler outlet (°F / °C)	945 / 507	1213 / 656

ENGINE PARAMETERS

Rated synchronous rpm	1,800

POWER ADJUSTMENT FOR AMBIENT CONDITIONS

Temperature deration ..... 1.65% for every 10 °F above 77 °F or 3% for every 10 °C above 25 °C
Altitude deration ..... 3% for every 1,000 ft above 600 ft or 1% for every 100 m above 183 m

CONTROLLER FEATURES

Two-line plain text LCD ..... Simple user interface for ease of operation.
Mode buttons: AUTO ..... Automatic Start on Utility failure. 7 day exerciser.
OFF ..... Stops unit. Power is removed. Control and charger still operate.
MANUAL ..... Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Programmable start delay between 2–1500 seconds ..... 5 sec standard (programmable by dealer only)
Engine start sequence ..... Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration)
Engine warm-up ..... 5 sec
Engine cool-down ..... 1 min
Starter lock-out ..... Starter cannot re-engage until 5 sec after engine has stopped.
Smart battery charger ..... Standard
Automatic Voltage Regulation with Over and Under Voltage protection ..... Standard
Automatic Low Oil Pressure shutdown ..... Standard
Overspeed shutdown ..... Standard, 72 Hz
High Temperature shutdown ..... Standard
Overcrank protection ..... Standard
Safety fused ..... Standard
Failure to Transfer protection ..... Standard
Low Battery/Battery Problem protection and Battery Condition indication ..... Standard
50 Event Run log ..... Standard
Future set capable exerciser ..... Standard
Incorrect wiring protection ..... Standard
Internal fault protection ..... Standard
Common external fault capability ..... Standard
Governor failure protection ..... Standard
Field upgradeable firmware ..... Standard

48 kW Installation Layout

Drawing A0000293718 Rev B (1 of 2)

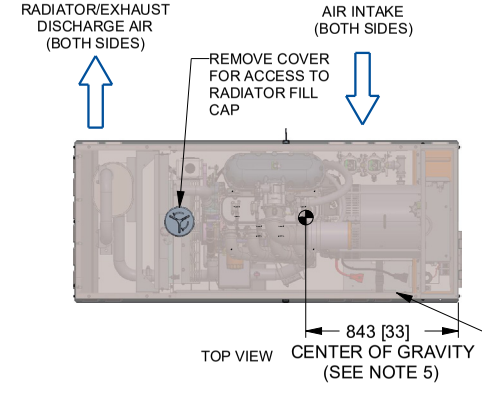
WEIGHT DATA				
ENGINE/KW	ENCLOSURE MATERIAL	WEIGHT GENSET ONLY KG [LBS]	WEIGHT SHIPPING SKID KG [LBS]	SHIPPING WEIGHT KG [LBS]
4.5L/48KW	AL	808 [1781]	51 [112]	859 [1893]

SERVICE ITEM	4.5L
OIL FILL CAP	LEFT SIDE
OIL DIP STICK	LEFT SIDE
OIL FILTER	LEFT SIDE
OIL DRAIN HOSE	RIGHT SIDE
RADIATOR DRAIN HOSE	RIGHT SIDE
COOLANT RECOVERY BOTTLE	RIGHT SIDE
RADIATOR FILL CAP	ROOF TOP
AIR CLEANER ELEMENT	LEFT SIDE
SPARK PLUGS	LEFT SIDE
MUFFLER	SEE NOTE 11
DRIVE BELT	EITHER SIDE
BATTERY	LEFT SIDE

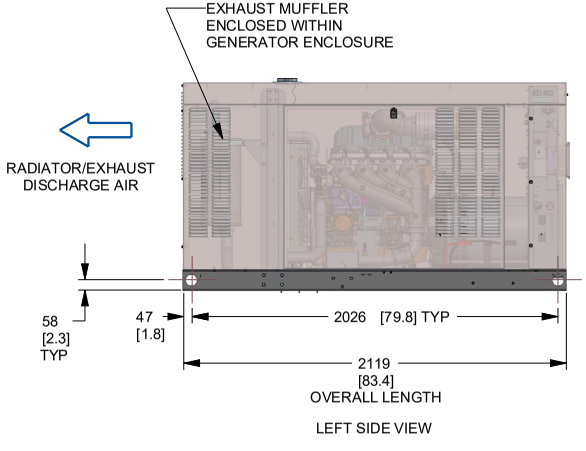
REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PARTS LIST

NOTES:

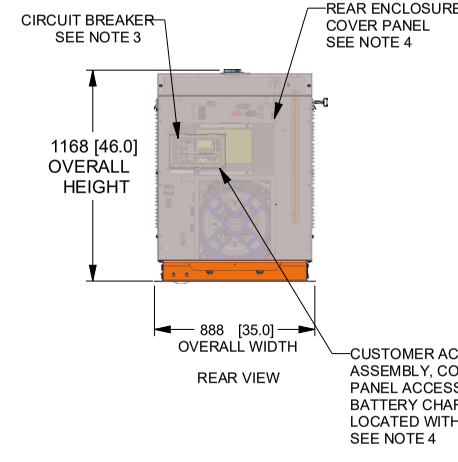
1. MINIMUM RECOMMENDED CONCRETE PAD SIZE IS 6" OFFSET OF OVERALL LENGTH AND WIDTH OF GENERATOR. {1193.8 (47") WIDE X 2423.2 (95.4") LONG}. REFERENCE INSTALLATION GUIDE SUPPLIED WITH THE UNIT FOR CONCRETE PAD GUIDELINES. REFERENCE MANUFACTURER'S SPECIFICATIONS IF USING ENGINEERED, PREFABRICATED SLABS.
2. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
3. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
   - SEE SPECIFICATION SHEET OR OWNERS MANUAL
   - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
4. REMOVE THE REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
   - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
   - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES.
5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
6. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
7. REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
8. MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
9. MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
10. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED.
11. EXHAUST MUFFLER ENCLOSED WITHIN GENERATOR ENCLOSURE, REMOVE FRONT PANEL TO ACCESS.



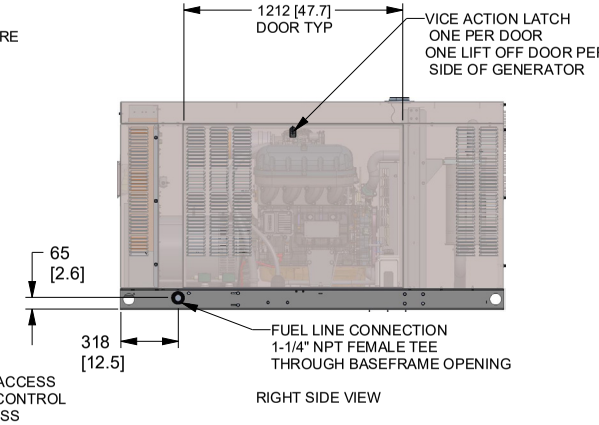
TOP VIEW



LEFT SIDE VIEW



REAR VIEW

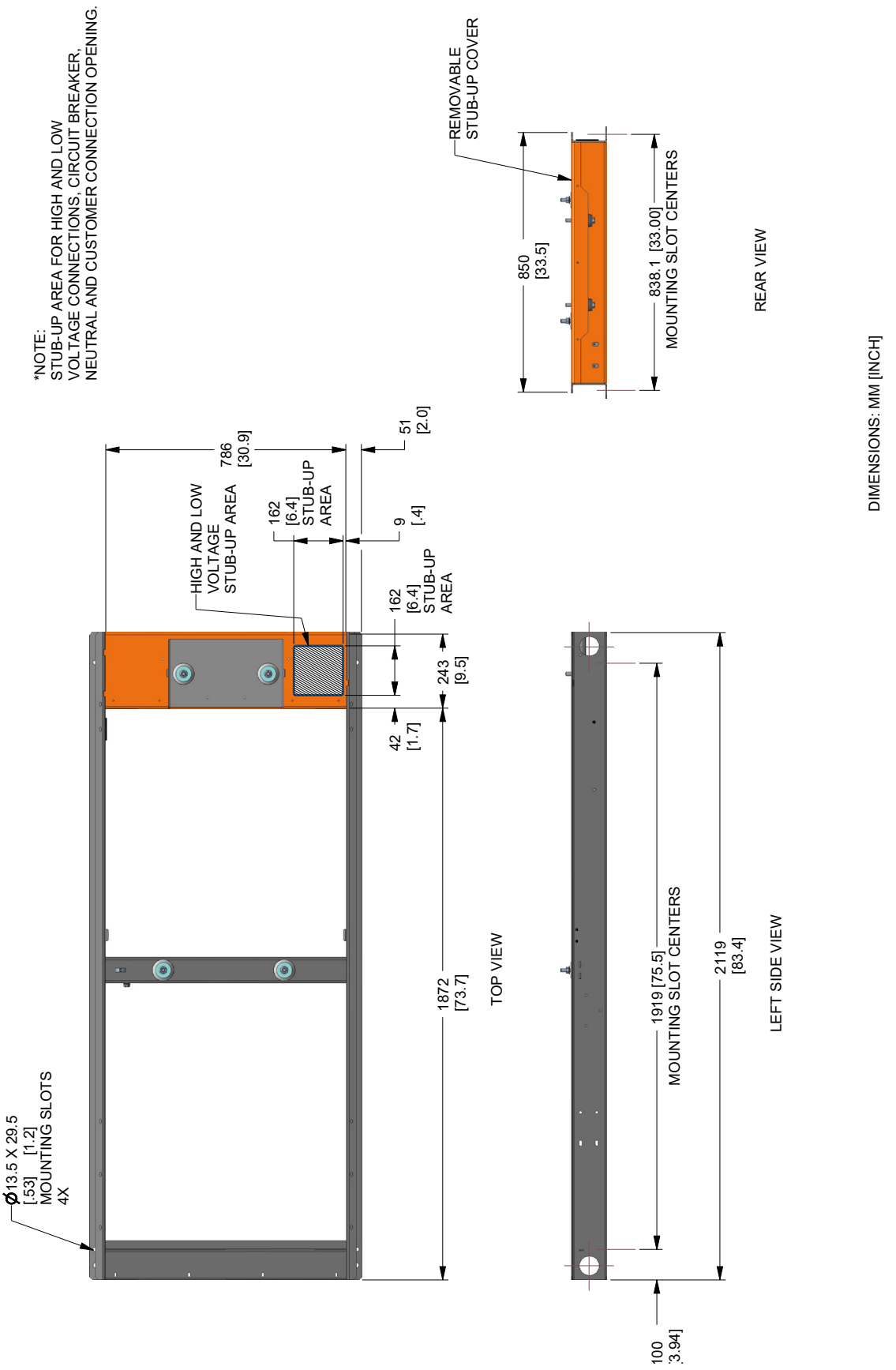


RIGHT SIDE VIEW

DIMENSIONS: MM [INCH]

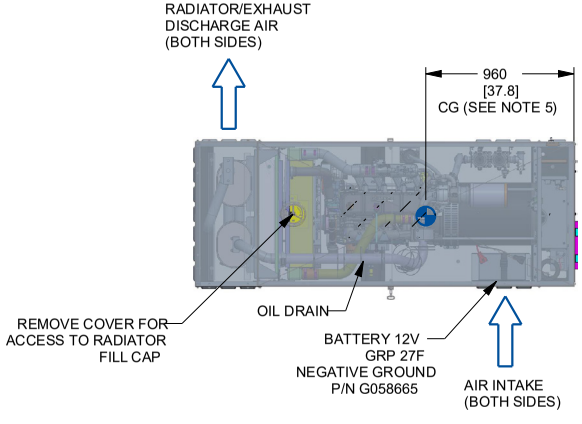
48 kW Installation Layout

Drawing A0000293718 Rev B (2 of 2)



60 / 80 kW Installation Layout

Drawing A0000293264 Rev B (1 of 2)



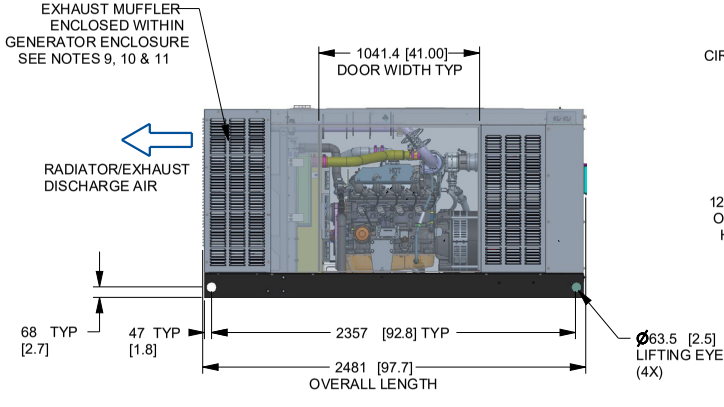
TOP VIEW

SERVICE ITEM	4.5L
OIL FILL CAP	LEFT SIDE
OIL DIP STICK	LEFT SIDE
OIL FILTER	LEFT SIDE
OIL DRAIN HOSE	LEFT SIDE
RADIATOR DRAIN HOSE	RIGHT SIDE
COOLANT RECOVERY BOTTLE	RIGHT SIDE
RADIATOR FILL CAP	ROOF TOP
AIR CLEANER ELEMENT	EITHER SIDE
SPARK PLUGS	LEFT SIDE
MUFFLER	SEE NOTE 11
FAN BELT	EITHER SIDE
BATTERY	LEFT SIDE

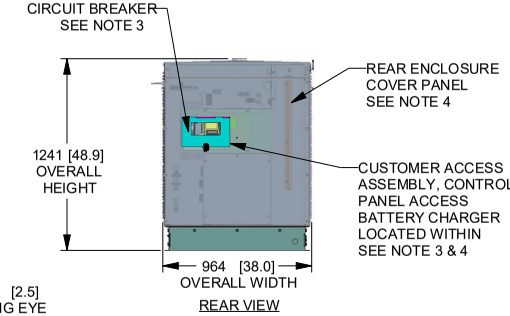
REFERENCE OWNERS MANUAL
FOR PERIODIC REPLACEMENT
PART LISTINGS.

NOTES:

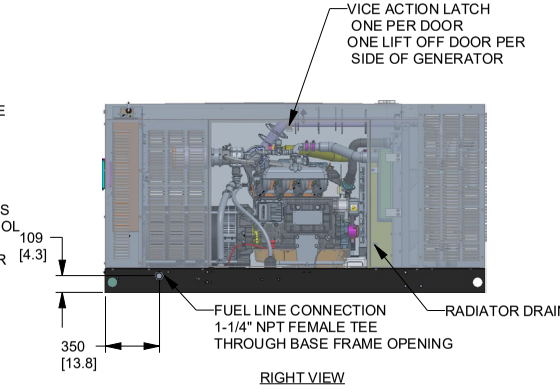
1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: (6" LARGER PER SIDE THAN GENERATOR) 1269 (50") WIDE 2786 (110") LONG. REFERENCE INSTALLATION GUIDE SUPPLIED WITH UNIT FOR CONCRETE PAD GUIDELINES.
2. ALLOW SUFFICIENT ROOM ON ALL SIDES OF THE GENERATOR FOR MAINTENANCE AND SERVICING. THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
3. CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
   - SEE SPECIFICATION SHEET OR OWNERS MANUAL
   - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY ON REAR OF GENERATOR.
4. INSIDE STUB-UP AREA FOR AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, BATTERY CHARGER 120 VOLT AC (.5 AMP MAX) CONNECTION AND ACCESS TO TRANSFER SWITCH CONTROL WIRES. REMOVE REAR COVER FOR ACCESS.
5. CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
6. BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
7. REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
8. MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
9. MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
10. GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED.
11. REMOVE FRONT END PANEL TO ACCESS EXHAUST MUFFLER. ACCESS AVAILABLE THROUGH DOORS TO FAN BELT.



LEFT VIEW



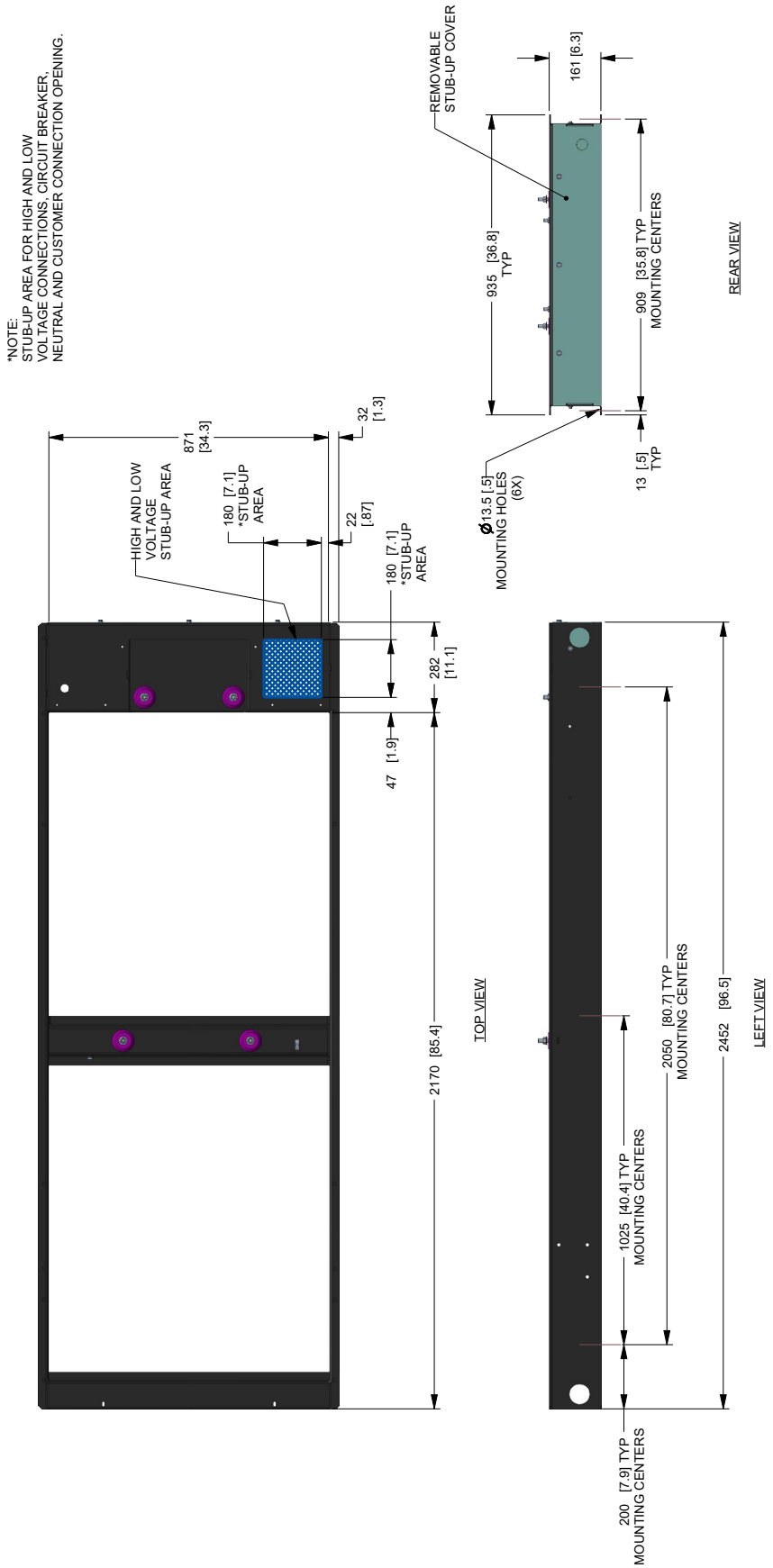
REAR VIEW



RIGHT VIEW

60 / 80 kW Installation Layout

Drawing A0000293264 Rev B (2 of 2)



48 / 60 / 80 kW Available Accessories

MODEL #	PRODUCT	DESCRIPTION
G007992-0	Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. The cold weather kit consists of a battery warmer with thermostat built into the wrap.
G007990-0	Extreme Cold Weather Kit	Recommended where the temperature regularly falls below 32 °F (0 °C) for extended periods of time. For liquid cooled units only.
G005651-0	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
G006160-0	Touch-Up Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The touch-up paint kit includes the necessary paint to correctly maintain or touch-up a generator enclosure.
G007991-0	Scheduled Maintenance Kit	The liquid-cooled scheduled maintenance kit provides all the items necessary to perform complete routine maintenance on Honeywell liquid-cooled generators (oil not included).
G006664-0	Local Wireless Remote Monitor	Completely wireless and battery powered, the wireless remote monitor provides the user with instant status information without ever leaving the house.
G006665-0	Wireless Remote Monitor Extension Harness	Recommended for use with the wireless remote monitor on units up to 60 kW, required for use on units 70 kW or greater.
G007993-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.
G007005-0	Wi-Fi LP Tank Fuel Level Monitor	The Wi-Fi enabled LP tank fuel level monitor provides constant monitoring of the connected LP fuel tank. Monitoring the LP tank's fuel level is an important step in verifying the generator is ready to run during an unexpected power failure. Status alerts are available through a free application to notify users when the LP tank is in need of a refill.
G007000-0 - 50 amps G007006-0 - 100 amps	Smart Management Module	Smart Management Modules (SMM) are used to optimize the performance of a standby generator. They manage large electrical loads upon startup and shed them to aid in recovery when overloaded. In many cases, using SMM's can reduce the overall size and cost of the system.
G007169-0	Mobile Link® 4G LTE Cellular Accessory	The Mobile Link 4G LTE Cellular Accessory allow users to monitor generator status from anywhere in the world using a smart phone, tablet, or PC. Easily access information such as the current operating status and maintenance alerts. Users can connect an account with an authorized service dealer for fast, friendly, and proactive service. With Mobile Link, users are taken care of before the next power outage,
G006478-0	Harness Adapter Kit	The harness adapter kit is required to make liquid-cooled units compatible with Mobile Link® 4G LTE Cellular Accessory.

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