

STANDBY GENERATOR

60 kW

LIQUID-COOLED GENERATOR SET

Standby Power Rating

Model HG060 (Aluminum - Dark Gray)- 60 kW 60 Hz



INCLUDES

- Two Line LCD Multilingual Digital Sync 1.0™ Controller (English/Spanish/French/Portuguese) with external viewing window for easy indication of generator status and breaker position.
- Precision Power™ Electrical Technology
- Isochronous Electronic Governor
- Sound Attenuated Aluminum Enclosure
- Closed Coolant Recovery System
- Smart Battery Charger
- Flexible Fuel Line Connector
- Mobile Link™ Monitoring System
- UV/Ozone Resistant Hoses
- ±1% Voltage Regulation
- Natural Gas or LP Gas Operation
- 5 Year Comprehensive Warranty
- UL 2200 Listed

Meets EPA Emission Regulations
not for sale in CA/MA

FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of our 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 Honeywell generators with the confidence that these systems will provide superior performance.
- **TEST CRITERIA**
 - ◆ PROTOTYPE TESTED
 - ◆ SYSTEM TORSIONAL TESTED
 - ◆ NEMA MG1-22 EVALUATION
 - ◆ MOTOR STARTING ABILITY
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION** This state-of-the-art power maximizing regulation system is 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. Digital voltage regulation at ±1%.
- **SINGLE SOURCE SERVICE RESPONSE** from our extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **Honeywell TRANSFER SWITCHES** The Honeywell generator line include its own transfer systems and controls for total system compatibility.

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Application & Engineering Data

GENERATOR SPECIFICATIONS

• Type	Synchronous
• Rotor Insulation	Class H
• Stator Insulation	Class H
• Telephone Interference Factor (TIF)	<50
• Alternator Output Leads Phase 3	4 wire
• Bearings	Sealed Ball
• Coupling	Flexible Disc
• Load Capacity (Standby Rating)	60 kW
• Excitation System	Direct

ENGINE SPECIFICATIONS

• Make	Generac
• Model	In Line
• Cylinders	4
• Displacement	2.4 Liter
• Bore	3.41
• Stroke	3.94
• Compression Ratio	8.5:1
• Intake Air System	Turbcharged/Aftercooled
• Lifter Type	Hydraulic

GOVERNOR SPECIFICATIONS

• Type	Electronic
• Frequency Regulation	Isochronous
• Steady State Regulation	± 0.25%

VOLTAGE REGULATION

• Type	Electronic
• Sensing	Single Phase
• Regulation	± 1%

GENERATOR FEATURES

- Revolving field heavy duty generator
- Directly connected to the engine
- Operating temperature rise 120 °C above a 40 °C ambient
- Insulation is Class H rated at 150 °C rise
- All models are fully prototyped tested

ENGINE LUBRICATION SYSTEM

• Oil Pump	Gear
• Oil Filter	Full flow spin-on cartridge
• Crankcase	4 Quarts

ENGINE COOLING SYSTEM

• Type	Pressurized Closed
• Water Pump	Belt driven
• Fan Speed	2100
• Fan Diameter	22 inches
• Fan Mode	Puller

FUEL SYSTEM

• Fuel Type	Natural gas, propane vapor
• Carburetor	Down Draft
• Secondary Fuel Regulator	Standard
• Fuel Shut Off Solenoid	Standard
• Operating Fuel Pressure	5" - 14" H ₂ O

ELECTRICAL SYSTEM

• Battery Charge Alternator	12V 30 Amp
• Static Battery Charger	2 Amp
• Recommended Battery	Group 26, 525CCA
• System Voltage	12 Volts

ENCLOSURE FEATURES

- Aluminum all weather protective enclosure – Ensures 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.
- Small, compact, attractive – Makes for easy installation of an eye appealing unit.
- SAE – Sound attenuated enclosure ensures quiet operation.

Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BS5514, ISO3046 and DIN6271). (All ratings in accordance with BS5514, ISO3046, ISO8528, SAE J1349 and DIN6271).

Operating Data

KW RATING (LP/NG)		60/60	
ENGINE SIZE		2.4 Liter 4 cyl. inline	
GENERATOR OUTPUT VOLTAGE/KW - 60Hz		kW LPG	AMP
120/240V, 1-phase, 1.0 pf		60	250
120/208V, 3-phase, 0.8 pf		60	208
120/240V, 3-phase, 0.8 pf		60	180
277/480V, 3-phase, 0.8 pf		60	90
ENGINE FUEL CONSUMPTION (Natural Gas) (Propane)		Natural Gas (ft³/hr.)	Propane gal/hr
Exercise cycle		123	49.3
25% of rated load		267	101
50% of rated load		483	183
75% of rated load		672	255
100% of rated load*		862	327
For Btu content, multiply ft ³ /hr x 2520 (LP) or ft ³ /hr x 1000 (NG)			
ENGINE COOLING			
Air flow (inlet air including alternator and combustion air)	ft ³ /min.	3,280	
System coolant capacity	US gal.	2.5	
Heat rejection to coolant	BTU/hr.	270,000	
Max. operating air temp. on radiator	°C (°F)	60 (150)	
Max. ambient temperature	°C (°F)	50 (140)	
COMBUSTION AIR REQUIREMENTS			
Flow at rated power 60 Hz	cfm	180	
SOUND EMISSIONS IN DBA			
Exercising at 7 meters		65	
Normal operation at 7 meters		72	
EXHAUST			
Exhaust flow at rated output 60 Hz	cfm	494	
Exhaust temp. at muffler outlet	°F	1,050	
ENGINE PARAMETERS			
Rated synchronous RPM	60 Hz	3600	
POWER ADJUSTMENT FOR AMBIENT CONDIIONS			
Temperature Deration	3% for every 10 °C above - °C 1.65% for every 10 °F above - °F	25 77	
Altitude Deration	1% for every 100 m above - m 3% for every 1000 ft. above - ft.	915 3000	

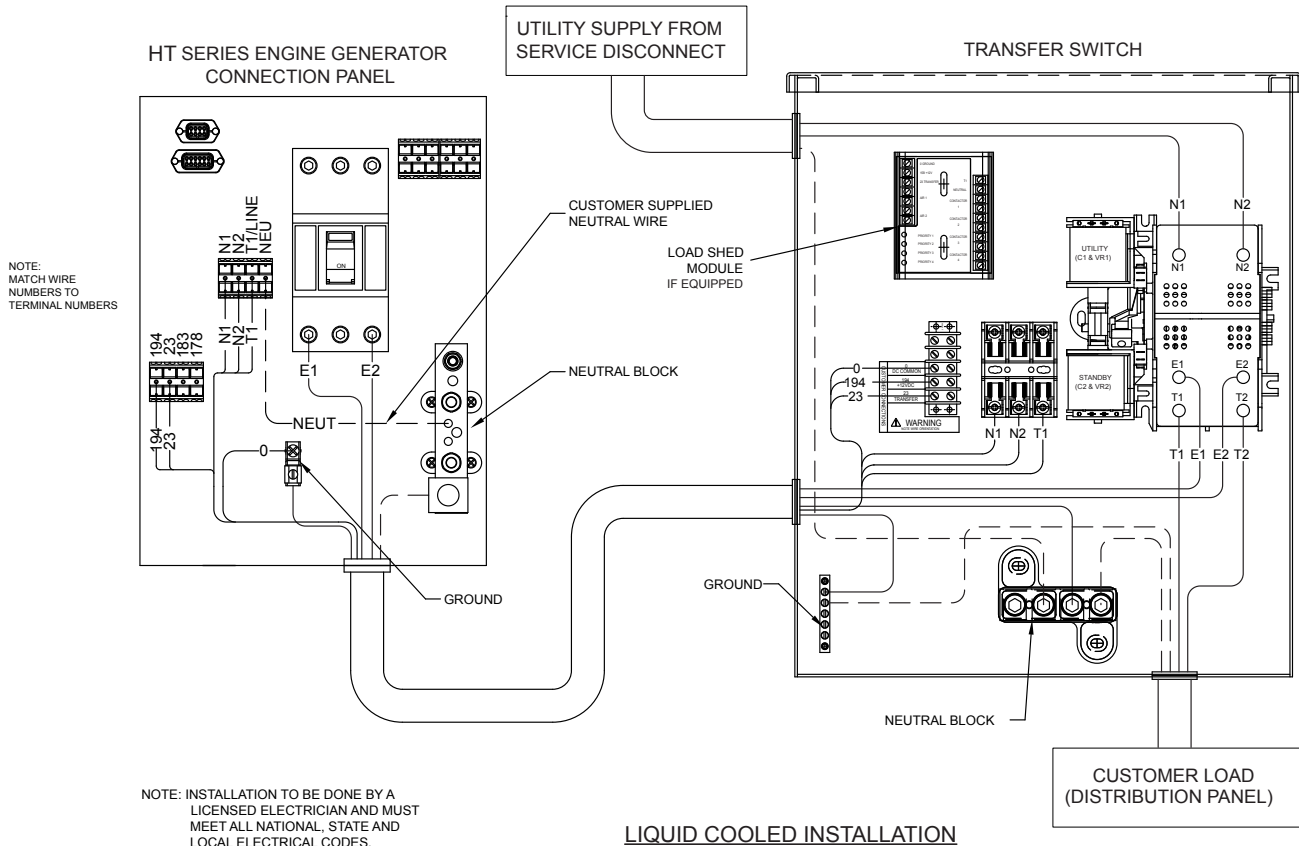
Refer to "Emissions Data Sheets" for maximum fuel flow for EPA and SCAQMD permitting purposes.

RATING: All three phases units are rated at 0.8 power factor. All single phase units are rated at 1.0 power factor. 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.

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Interconnections



CONTROL FEATURES

<ul style="list-style-type: none"> • 2-Line Plain Text LCD Display • Mode Switch <ul style="list-style-type: none"> -Auto -Off -Manual/Test (start) • Programmable start delay between 10-30 seconds • Engine Start Sequence • Engine Warm-up • Engine Cool-Down • Starter Lock-out • Smart Battery Charger • Automatic Voltage Regulation with Over and Under Voltage Protection 	<p>Simple user interface for ease of operation.</p> <p>Automatic Start on Utility failure. 7 day exerciser Stops unit. Power is removed. Control and charger still operate. Start with starter control, unit stays on. If utility fails, transfer to load takes place.</p> <p>Standard</p> <p>Cyclic cranking: 16 sec. on, 7 rest (90 sec. maximum duration). 5 seconds 1 minute Starter cannot re-engage until 5 sec. after engine has stopped.</p> <p>Standard Standard</p>	<ul style="list-style-type: none"> • Automatic Low Oil Pressure Shutdown • Overspeed Shutdown • High Temperature Shutdown • Overcrank Protection • Safety Fused • Failure to Transfer Protection • Low Battery Protection • 50 Event Run Log • Future Set Capable Exerciser • Incorrect Wiring Protection • Internal Fault Protection • Common External Fault Capability • Governor Failure Protection 	<p>Standard</p> <p>Standard</p> <p>Standard</p> <p>Standard</p> <p>Standard</p> <p>Standard</p> <p>Standard</p> <p>Standard</p> <p>Standard</p> <p>Standard</p> <p>Standard</p> <p>Standard</p>
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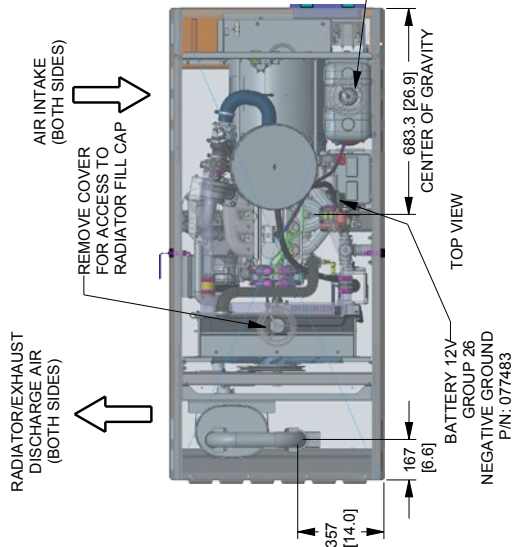
Single and three phase connections may vary, refer to the owner's manual for specific connection information.

Installation Layout

SERVICE ITEM	2.4L
OIL-FILL CAP	EITHER SIDE
OIL-DIP STICK	RIGHT SIDE
OIL FILTER	LEFT SIDE
OIL DRAIN HOSE	RIGHT SIDE
RADIATOR DRAIN HOSE	LEFT SIDE
COOLANT RECOVERY BOTTLE	LEFT SIDE
RADIATOR FILL CAP	ROOF TOP
AIR CLEANER ELEMENT	LEFT SIDE
SPARK PLUGS	LEFT SIDE
MUFFLER	SEE NOTE 11
DRIVE BELT	EITHER SIDE
FAN BELT	SEE NOTE 11
BATTERY	LEFT SIDE
LUBE OIL MAINTAINER SUPPLY TANK FILL CAP	ROOF TOP

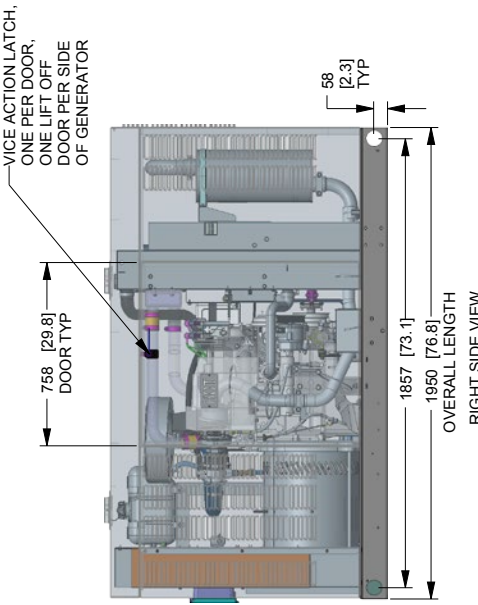
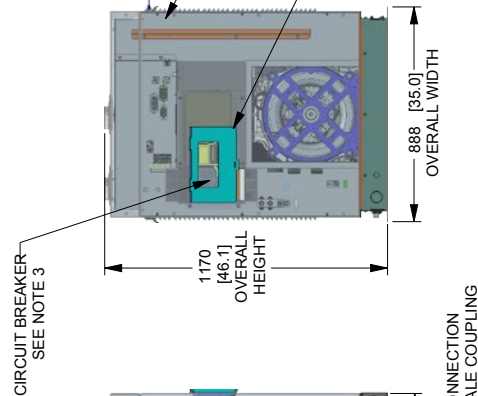
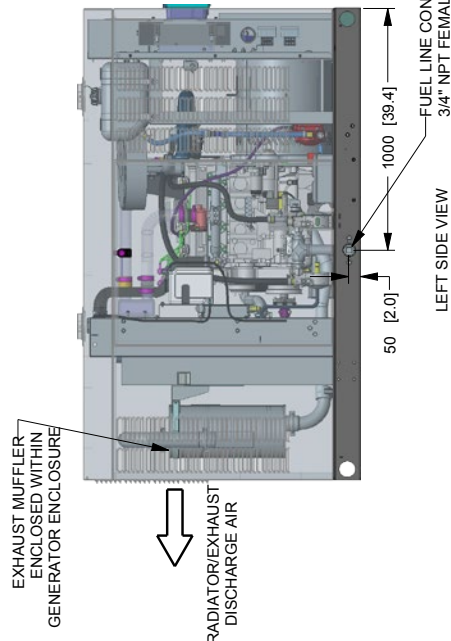
NOTES:

1. MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1194MM (47") WIDE X 2256MM (88.8") 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 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 AND FAN BELT ENCLOSED WITHIN GENERATOR ENCLOSURE. REMOVE FRONT PANEL TO ACCESS.



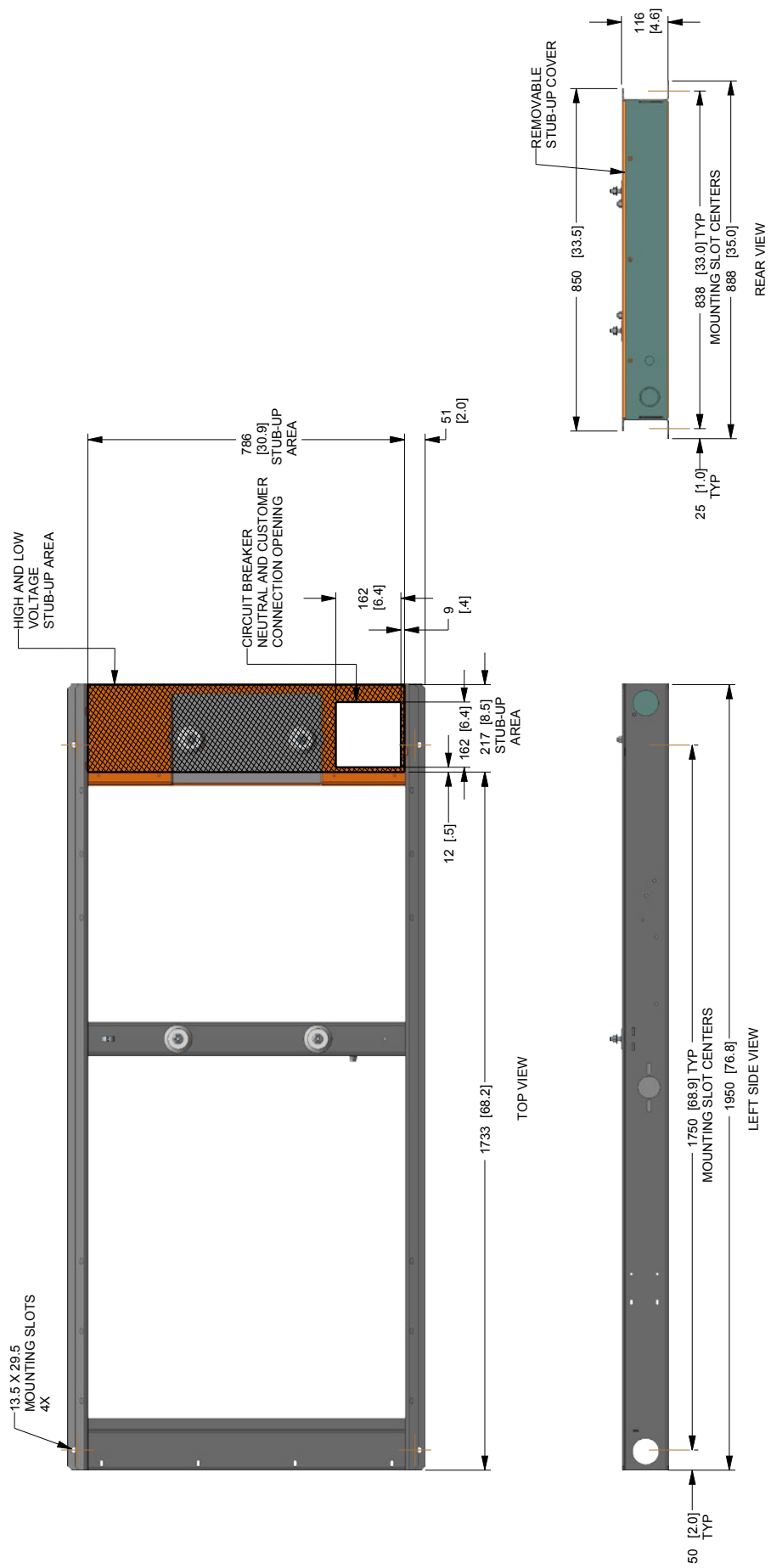
REMOVE COVER FOR ACCESS TO LUBE OIL MAINTAINER SUPPLY TANK. REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS.

CIRCUIT BREAKER - SEE NOTE 3



WEIGHT DATA			
ENGINE/KW	ENCLOSURE MATERIAL	WEIGHT GENSET ONLY KG [LBS]	WEIGHT SHIPPING SKID KG [LBS]
2.4L 60KW	ST	582 [1283]	44 [98]
2.4L 60KW	AL	558 [1230]	44 [98]
			602 [1328]

DIMENSIONS: MM [INCH]



DIMENSIONS: MM [INCH]

AVAILABLE ACCESSORIES

Model #	Product	Description
005630-1	Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), install a cold weather kit to maintain optimal battery temperature. Kit consists of battery warmer with thermostat built into the wrap.
005616-0	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.
005651-0	Base Plug Kit	Add base plugs to the base of the generator to keep out debris.
006160-0	Paint Kit	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
005984-0	Scheduled Maintenance Kit	The Liquid-Cooled Scheduled Maintenance Kits offer all the hardware necessary to perform complete maintenance on Generac liquid-cooled generators.
006664-0	Wireless Remote	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house.
006665-0	Wireless Remote Extension Harness	Recommended for use with the Wireless Remote on units up to 60 kW, required for use on units 70 kW or greater.
006874-0	Smart Management Module (50 Amps)	Smart Management Modules are used in conjunction with the Automatic Transfer Switch to increase its power management capabilities. It provides additional power management flexibility not found in any other power management system.
006510-0	E-Stop	E-stop allows for immediate fuel shutoff and generator shutdown in the event of an emergency.

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