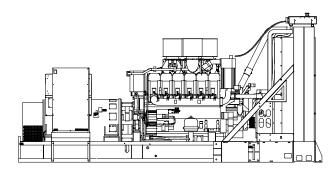
KOHLER

Industrial Diesel Generator Set - KD2000 Tier 2 EPA-Certified for Stationary Emergency Applications



Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- Approved for use with certified renewable Hydrotreated Vegetable Oil (HVO) / Renewable Diesel (RD) fuels compliant with EN15940 / ASTM D975.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- A standard three-year unlimited-hour limited warranty for standby applications in the U.S. And Canada. Five-year basic, five-year comprehensive, and ten-year extended limited warranties are also available.
- A standard two-year or 8700-hour limited warranty for prime power applications.
- Other features:
 - Kohler designed controllers for one-source system integration and remote communication. See Controllers on page 4.
 - The low coolant level shutdown prevents overheating (standard on radiator models only).

Conscious Care[™]**Qualified**

 Reduce operating costs, fuel consumption, and greenhouse gas emissions with Conscious Care[™] maintenance program.

KDxxxx designates a generator set with a Tier 2 EPA-Certified engine. KDxxxx-F designates a 60 Hz generator set with a fuel optimized engine.

Ratings Range

•		60 Hz
Standby:	kW kVA	1990-2000 2488-2500
Prime:	kW kVA	1810 2262



General Specifications

Orderable Generator Model Number	GMKD2000
Manufacturer	Kohler
Engine: model	KD62V12
Alternator Choices	KH06220TO4D
	KH07000TO4D KH07080TO4D
	KH07630TO4D
	KH07770TO4D
	KH08430TO4D KH09270TO4D
Parformance Class	Per ISO 8528-5
Performance Class	
One Step Load Acceptance	100%
Voltage	Wye, 600 V, 4160 V, or 6600-13800 V
Controller	APM603, APM802
Fuel Tank Capacity, L (gal.)	8577-16383 (2266-4328)
Fuel Consumption, L/hr (gal./hr)	
100% at Standby	564 (149.1)
Fuel Consumption, L/hr (gal./hr)	510 (100 0)
100% at Prime Power	516 (136.3)
Emission Level Compliance (KDxxxx)	Tier 2
Open Unit Noise Level @ 7 m dB(A) at Rated Load	_
Data Center Continuous (DCC) Rating (Refer to TIB-101 for definitions)	Same as the Standby Rating below

Generator Set Ratings

			5	150°C	Rise	130°C	Rise	125°C	Rise	105°C	Rise
				Standby	Rating	Standby	Rating	Prime F	Rating	Prime F	Rating
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps
KH07770TO4D	220/380	3	60	1990/2488	3781	1990/2488	3781	1810/2262	3437	1810/2262	3437
	240/416	3	60	2000/2500	3470	2000/2500	3470	1810/2262	3140	1810/2262	3140
	220/380	3	60	2000/2500	3799	2000/2500	3799	1810/2262	3437	1810/2262	3437
	240/416	3	60	2000/2500	3470	2000/2500	3470	1810/2262	3140	1810/2262	3140
KH08430TO4D	277/480	3	60	2000/2500	3008	2000/2500	3008	1810/2262	2721	1810/2262	2721
	347/600	3	60	2000/2500	2406	2000/2500	2406	1810/2262	2177	1810/2262	2177
	2400/4160	3	60	2000/2500	347	2000/2500	347	1810/2262	314	1810/2262	314
KH06220TO4D	2400/4160	3	60	2000/2500	347	2000/2500	347	1810/2262	314	1810/2262	314
	347/600	3	60	2000/2500	2406	2000/2500	2406	1810/2262	2177	1810/2262	2177
KH07000TO4D	2400/4160	3	60	2000/2500	347	2000/2500	347	1810/2262	314	1810/2262	314

RATINGS: All three-phase units are rated at 0.8 power factor. Standby Ratings: The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Prime Power Ratings: At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time and continuous ratings, consult the factory. Obtain technical information bulletin (TIB-101) for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever

KOHLER

Industrial Diesel Generator Set - KD2000 Tier 2 EPA-Certified for Stationary Emergency Applications

				130°C Standby		105°C Rise Prime Rating		
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps	
	3810/6600	3	60	2000/2500	219	1810/2262	198	
KH07080TO4D	7200/12470	3	60	1990/2488	116	1810/2262	105	
KH07080104D	7620/13200	3	60	1990/2488	109	1810/2262	99	
	7970/13800	3	60	2000/2500	105	1810/2262	95	
	3810/6600	3	60	2000/2500	219	1810/2262	198	
KH07630TO4D	7200/12470	3	60	2000/2500	116	1810/2262	105	
KH07030104D	7620/13200	3	60	2000/2500	110	1810/2262	99	
	7970/13800	3	60	2000/2500	105	1810/2262	95	
	3810/6600	3	60	2000/2500	219	1810/2262	198	
KH09270TO4D	7200/12470	3	60	2000/2500	116	1810/2262	105	
KH09270104D	7620/13200	3	60	2000/2500	110	1810/2262	99	
	7970/13800	3	60	2000/2500	105	1810/2262	95	

Engine Specifications	60 Hz
Manufacturer	Kohler
Engine: model	KD62V12
Engine: type	4-Cycle, Turbocharged, Intercooled
Cylinder arrangement	12-V
Displacement, L (cu. in.)	62 (3783)
Bore and stroke, mm (in.)	175 x 215 (6.89 x 8.46)
Compression ratio	16.0:1
Piston speed, m/min. (ft./min.)	774 (2539)
Main bearings: quantity, type	7, Precision Half Shells
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	2180 (2923)
Cylinder head material	Cast Iron
Crankshaft material	Steel
Valve (exhaust) material	Steel
Governor: type, make/model	KODEC Electronic Control
Frequency regulation, no-load to-full load	Isochronous
Frequency regulation, steady state	±0.25%
Frequency	Fixed
Air cleaner type, all models	Dry
Lubricating System	60 Hz
Туре	Full Pressure
Oil pan capacity with filter (initial fill), L (qt.) \S	335 (354)
Oil filter: quantity, type \S	6, Cartridge
Oil cooler	Water-Cooled
§ Kohler recommends the use of Kohler	
§ Kohler recommends the use of Kohler Fuel System	
	Genuine oil and filters.
Fuel System	Genuine oil and filters. 60 Hz
Fuel System Fuel supply line, min. ID, mm (in.)	Genuine oil and filters. 60 Hz 25 (1.0)
Fuel System Fuel supply line, min. ID, mm (in.) Fuel return line, min. ID, mm (in.)	Genuine oil and filters. 60 Hz 25 (1.0) 19 (0.75)
Fuel System Fuel supply line, min. ID, mm (in.) Fuel return line, min. ID, mm (in.) Max. fuel flow, Lph (gph) Min./max. fuel pressure at engine supply	60 Hz 25 (1.0) 19 (0.75) 768 (202.9)
Fuel System Fuel supply line, min. ID, mm (in.) Fuel return line, min. ID, mm (in.) Max. fuel flow, Lph (gph) Min./max. fuel pressure at engine supply connection, kPa (in. Hg)	60 Hz 25 (1.0) 19 (0.75) 768 (202.9) - 30/30 (- 8.8/8.8)
Fuel System Fuel supply line, min. ID, mm (in.) Fuel return line, min. ID, mm (in.) Max. fuel flow, Lph (gph) Min./max. fuel pressure at engine supply connection, kPa (in. Hg) Maximum diesel fuel lift, m (ft.)	Genuine oil and filters. 60 Hz 25 (1.0) 19 (0.75) 768 (202.9) - 30/30 (- 8.8/8.8) 3.7 (12)

Fuel Consumption**	60 Hz
Diesel, Lph (gph) at % load	Standby Rating
100%	564 (149.1)
75%	433 (114.3)
50%	308 (81.3)
25%	186 (49.1)
Diesel, Lph (gph) at % load	Prime Rating
100%	516 (136.3)
75%	401 (106.0)
50%	287 (75.8)
25%	172 (45.5)

** Volumetric Fuel consumption is up to 4% higher when using HVO/RD than #2 ULSD.

Radiator System	60 Hz		
Ambient temperature, °C (°F)*	50 (122)	40 (104)	
Engine jacket water capacity, L (gal.)	356 (94)		
Radiator system capacity, including engine, L (gal.)	643 (170) 539 (142)		
Engine jacket water flow, Lpm (gpm)	2082	(550)	
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	780 (44357)		
Charge cooler water flow, Lpm (gpm)	662 (174)		
Heat rejected to charge cooling water at rated kW, dry exhaust, kW (Btu/min.)			
Water pump type	Centrifugal		
Fan diameter, including blades, mm (in.)	2235 (88)	1901 (75)	
Fan, kWm (HP)	90 (120.7)	85 (114)	
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H_2O)	0.125	(0.5)	
 Evelopment with an element ellement werken. 			

* Enclosure with enclosed silencer reduces ambient temperature capability by 5°C (9°F).

Remote Radiator System†	60 Hz			
Exhaust manifold type	Dry			
Connection sizes:	Class 150 ANSI Flange			
Water inlet/outlet, mm (in.)	216 (8.5) Bolt Circle			
Intercooler inlet/outlet, mm (in.)	178 (7.0) Bolt Circle			
Static head allowable above engine, kPa (ft. H ₂ O)	70 (23.5)			

 $\dagger\,$ Contact your local distributor for cooling system options and specifications based on your specific requirements.



Exhaust System	60 Hz
Exhaust flow at rated kW, m ³ /min. (cfm)	498 (17586)
Exhaust temperature at rated kW at	
25°C (77°F) ambient, dry exhaust,	F00 (020)
°C (°F)	500 (932)
Maximum allowable back pressure, kPa (in. Hg)	8.5 (2.5)
Exh. outlet size at eng. hookup, mm	()
(in.)	See ADV drawing
Electrical System	60 Hz
Battery charging alternator:	
Ground (negative/positive)	Negative
Volts (DC)	24
Ampere rating	140
Starter motor qty. at starter motor power rating, rated voltage (DC)	Standard: 2 @ 9 kW, 24; Redundant (optional); 2 @ 15 kW, 24
Battery, recommended cold cranking amps (CCA):	
Quantity, CCA rating each, type (with standard starters)	4, 1110, AGM
Quantity, CCA rating each, type (with redundant starters)	8, 1110, AGM
Battery voltage (DC)	12
Air Requirements	60 Hz
Radiator-cooled cooling air, m³/min. (scfm)‡	50°C 40°C 2549 (90000) 2321 (82000)
Cooling air required for generator set when equipped with city water cooling or remote radiator, based on 14°C	
(25°F) rise, m ³ /min. (scfm)‡	930 (32858)
Combustion air, m ³ /min. (cfm)	179 (6321)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	100 (5687)
Alternator, kW (Btu/min.)	160 (9099)

‡ Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Alternator \$	Specifications	60 Hz	
Туре		4-Pole, Rotating-Field	
Exciter type		Brushless, Permanent- Magnet Pilot Exciter	
Voltage regu	ulator	Solid-State, Volts/Hz	
Insulation:		NEMA MG1, UL 1446, Vacuum Pressure Impregnated (VPI)	
Materia	al	Class H, Synthetic, Nonhygroscopic	
Tempe	rature rise	130°C, 150°C Standby	
Bearing: qua	antity, type	1 or 2, Sealed	
Coupling typ	be	Flexible Disc or Coupling	
Amortisseur	windings	Full	
Alternator w	inding type (up to 600 V)	Random Wound	
Alternator w	inding type (above 600 V)	Form Wound	
Rotor baland	cing	125%	
Voltage regu	ulation, no-load to full-load	±0.25%	
Unbalanced	load capability	100% of Rated Standby Current	
Peak motor	starting kVA:	(35% dip for voltages below)	
480 V	KH07770TO4D	7170	
480 V	KH08430TO4D	9908	
4160 V	KH06220TO4D	7529	
4160 V	KH07000TO4D	8987	
13800 V	KH07080TO4D	5071	
13800 V	KH07630TO4D	5594	
13800 V	KH09270TO4D	6360	

Alternator Standard Features

- The pilot-excited, permanent magnet (PM) alternator provides superior short-circuit capability.
- All models are brushless, rotating-field alternators.
- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Brushless alternator with brushless pilot exciter for excellent load response.

NOTE: See TIB-102 Alternator Data Sheets for alternator application data and ratings, efficiency curves, voltage dip with motor starting curves, and short circuit decrement curves.



Controllers



APM802 Controller

Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.

- 12-inch graphic display with touch screen and menu control provide easy local data access
- · Measurements are selectable in metric or English units
- User language is selectable
- Two USB ports allow connection of a flash drive, mouse, or keypad
- Electrical data, mechanical data, and system settings can be saved to
- a flash drive
 Ethernet port allows connection to a PC type computer or Ethernet switch
- The controller supports Modbus® RTU and TCP protocols
- NFPA 110 Level 1 capability

Refer to G6-152 for additional controller features and accessories. Modbus[®] is a registered trademark of Schneider Electric.

APM603 Controller

Provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility.

- 7-inch graphic display with touch screen and menu control provides easy local data access
- · Measurements are selectable in metric or English units
- Paralleling capability to control up to 8 generators on an isolated bus with first-on logic, synchronizer, kW and kVAR load sharing, and protective relays
- Note: Parallel with other APM603 controllers only
- Generator management to turn paralleled generators off and on as required by load demand
- Load management to connect and disconnect loads as required
- Controller supports Modbus® RTU, Modbus® TCP, SNMP and BACnet®
- Integrated voltage regulator with ±0.25% regulation
- Built-in alternator thermal overload protection
- UL-listed overcurrent protective device
- NFPA 110 Level 1 capability

Refer to G6-162 for additional controller features and accessories.

BACNet® is a registered trademark of ASHRAE.

Codes and Standards

- Engine-generator set is designed and manufactured in facilities certified to ISO 9001.
- Generator set meets NEMA MG1, BS5000, ISO, DIN EN, and IEC standards, NFPA 110.
- Engine generator set is tested to ISO 8528-5 for transient response.
- The generator set and its components are prototype-tested, factory-built, and production-tested.

Third-Party Compliance

• Tier 2 EPA-Certified for Stationary Emergency Applications

Available Approvals and Listings

- California OSHPD Pre-Approval
- CULus (UL 2200 and CSA)
- IBC Seismic Certification
- Florida Dept. of Environmental Protection (FDEP) Compliance (fuel tanks only)

Warranty Information

- A standard three-year unlimited-hour limited warranty for standby applications in the U.S. And Canada. Five-year basic, five-year comprehensive, and ten-year extended limited warranties are also available.
- A standard two-year or 8700-hour limited warranty for prime power applications.

Available Warranties for Standby Applications

- 5-Year Basic Limited Warranty
- 5-Year Comprehensive Limited Warranty
- 10-Year Major Components Limited Warranty

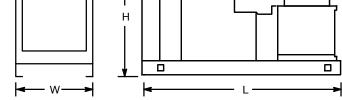
Standard Features

- Closed Crankcase Ventilation (CCV) Filters
- Customer Connection
- Local Emergency Stop Switch
- Oil Drain and Coolant Drain Extension
- Operation and Installation Literature
- Fan Bearing Grease Extension
- Fuel/Water Separator
- Generator Heater
- Spring Isolation Under the Skid



Available Options

	Circuit Breakers	Electrical System
	Type Rating	Battery, AGM (kit with qty. 4)
	Magnetic Trip 🔲 80%	Battery Charger
	Thermal Magnetic Trip 🔲 100%	Battery Heater; 100 W, 120 V, 1Ph
	Electronic Trip (LI) Operation	Battery Rack and Cables
	Electronic Trip with 🔲 Manual	Redundant Starters
	Short Time (LSI) Electrically Operated (for paralleling)	<u></u>
	Circuit Breaker Mounting	Fuel System
	Generator Mounted	Flexible Fuel Lines Restriction Course (for fuel/under consister)
	Remote Mounted	Restriction Gauge (for fuel/water separator)
	Bus Bar (for remote mounted breakers)	Literature
	Enclosed Remote Mounted Circuit Breakers	General Maintenance
	NEMA 1 (15-5000 A)	NFPA 110
	NEMA 3R (15-1200 A)	Overhaul
	Engine Type	Production
	KDxxxx Tier 2 EPA-Certified Engine	Miscellaneous
	KDxxxx-F Fuel Optimized Engine	Air Cleaner, Heavy Duty (loose)
	Approvals and Listings	Air Cleaner Restriction Indicator
	California OSHPD Pre- Approval	Automatic Oil Replenishment System
		Engine Fluids (oil and coolant) Added
Ц	cULus (UL 2200 and CSA)	Centrifugal Oil Filter Assembly
	IBC Seismic Certification	Rated Power Factor Testing
	Florida Dept. of Environmental Protection (FDEP) Compliance (fuel tanks only)	
		Electrical Package (Requires Enclosure selection)
	Enclosed Linit	
	Enclosed Unit	Basic Electrical Package (select 1 Ph or 3 Ph)
	Sound Level 1 Enclosure/Fuel Tank Package	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph)
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph)
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph)
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph)
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only)
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only) 5-Year Basic Limited Warranty
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only) 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital Flexible Exhaust Connector, Stainless Steel Controller Input/Output, Digital	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Wire Generator Heater (1 Ph) S-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Major Components Limited Warranty
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital Flexible Exhaust Connector, Stainless Steel Controller Input/Output, Digital Input/Output, Thermocouple (standard on 4160 V and above)	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only) 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Major Components Limited Warranty Other
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital Flexible Exhaust Connector, Stainless Steel Controller Input/Output, Digital Input/Output, Thermocouple (standard on 4160 V and above) Load Shed (APM802 only)	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Wire Generator Heater (1 Ph) 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Major Components Limited Warranty
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital Flexible Exhaust Connector, Stainless Steel Controller Input/Output, Digital Input/Output, Thermocouple (standard on 4160 V and above) Load Shed (APM802 only) Manual Key Switch	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only) 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Major Components Limited Warranty Other
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital Flexible Exhaust Connector, Stainless Steel Controller Input/Output, Digital Input/Output, Thermocouple (standard on 4160 V and above) Load Shed (APM802 only) Manual Key Switch Remote Emergency Stop Switch	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only) 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Major Components Limited Warranty Other
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital Flexible Exhaust Connector, Stainless Steel Controller Input/Output, Digital Input/Output, Thermocouple (standard on 4160 V and above) Load Shed (APM802 only) Manual Key Switch Remote Emergency Stop Switch Lockable Emergency Stop Switch	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only) 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Major Components Limited Warranty Other
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital Flexible Exhaust Connector, Stainless Steel Controller Input/Output, Digital Input/Output, Thermocouple (standard on 4160 V and above) Load Shed (APM802 only) Manual Key Switch Remote Emergency Stop Switch	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only) 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Major Components Limited Warranty Other
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital Flexible Exhaust Connector, Stainless Steel Controller Input/Output, Digital Input/Output, Thermocouple (standard on 4160 V and above) Load Shed (APM802 only) Manual Key Switch Remote Emergency Stop Switch Lockable Emergency Stop Switch	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only) 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Major Components Limited Warranty Other Dimensions and Weights
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital Flexible Exhaust Connector, Stainless Steel Controller Input/Output, Digital Input/Output, Thermocouple (standard on 4160 V and above) Load Shed (APM802 only) Manual Key Switch Remote Emergency Stop Switch Lockable Emergency Stop Switch Remote Serial Annunciator Panel	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only) 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Major Components Limited Warranty Other Dimensions and Weights Overall Size, max., L x W x H, mm (in.): 6958 x 2915 x 3301
	Sound Level 1 Enclosure/Fuel Tank Package Sound Level 2 Enclosure/Fuel Tank Package Open Unit Exhaust Silencer, Critical Exhaust Silencer, Hospital Flexible Exhaust Connector, Stainless Steel Controller Input/Output, Digital Input/Output, Thermocouple (standard on 4160 V and above) Load Shed (APM802 only) Manual Key Switch Remote Emergency Stop Switch Lockable Emergency Stop Switch Remote Serial Annunciator Panel Cooling System	 Basic Electrical Package (select 1 Ph or 3 Ph) Wire Battery Charger (1 Ph) Wire Block Heater (select 1 Ph or 3 Ph) Wire Controller Heater (1 Ph) Wire Generator Heater (1 Ph) Warranty (Standby Applications only) 5-Year Basic Limited Warranty 5-Year Comprehensive Limited Warranty 10-Year Major Components Limited Warranty Other Dimensions and Weights Overall Size, max., L x W x H, mm (in.): 6958 x 2915 x 3301 (273.9 x 114.8 x 130.0)
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NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information. G5-585 (KD2000) 6/231 Page 5



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Sound Enclosures and Subbase Fuel Tank

Sound Level 1 Enclosure Standard Features

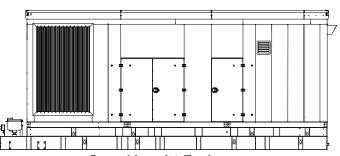
- Lift base or tank-mounted, aluminum construction enclosure with internal-mounted, exhaust silencers.
- Every enclosure has a sloped roof to reduce the buildup of moisture and debris.
- Sound attenuated enclosure that offers noise reduction using acoustic insulation, acoustic-lined air inlets and an acoustic-lined air discharge.
- Fade-, scratch-, and corrosion-resistant Kohler[®]
 Power Armor[™] automotive-grade textured finish.
- Acoustic insulation that meets UL 94 HF1 flammability classification.
- Enclosure has large access doors that are hinged and removable which allow for easy maintenance.
- Lockable, flush-mounted door latches.
- Air inlet louvers reduce rain and snow entry.
- High wind bracing, 241 kph (150 mph).

Sound Level 2 Enclosure Standard Features

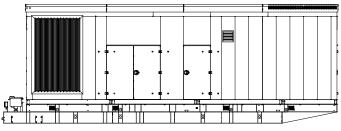
- Includes all of the sound level 1 enclosure features with the addition of up to 51 mm (2 in.) acoustic insulation material, intake sound baffles, vertical air discharge, and secondary silencers.
- Louvered air inlet and vertical outlet hood with 90 degree angles to redirect air and reduce noise.

Subbase Fuel Tank Features

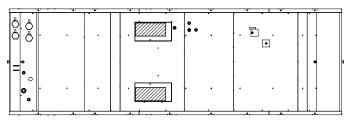
- The fuel tank has a black powder-coat finish texture.
- The above-ground rectangular secondary containment tank mounts directly to the generator set, below the generator set skid (subbase).
- Both the inner and outer tanks have UL-listed emergency relief vents.
- Flexible fuel lines are provided with subbase fuel tank selection.
- The containment tank's construction protects against fuel leaks or ruptures. The inner (primary) tank is sealed inside the outer (secondary) tank. The outer tank contains the fuel if the inner tank leaks or ruptures.
- The above ground secondary containment subbase fuel tank meets UL 142 requirements.
- Features include:
 - Additional fittings for optional accessories (qty. 3)
 - Electrical stub-up area open to bottom
 - Emergency inner and outer tank relief vents
 - $\,\circ\,$ Fuel fill with lockable cap and 51 mm (2 in.) riser
 - Fuel leak detection switch
 - Fuel level mechanical gauge
 - Fuel level sender
 - Normal vent
 - Removable engine supply and return diptubes



Sound Level 1 Enclosure (Shown with available spill containment)



Sound Level 2 Enclosure (Shown with available spill containment)



Subbase Fuel Tank (Top View)

DISTRII	BUTED	BY:		

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