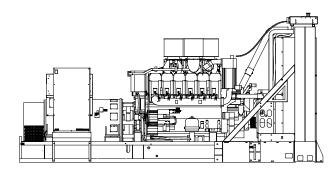
# **KOHLER**<sub>®</sub>

# Industrial Diesel Generator Set - KD2500 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 or 1000-hour limited warranty for standby applications. 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).

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

		5
		60 Hz
Standby:	kW	2250-2500
-	kVA	2812-3125
Prime:	kW	2050-2270
	kVA	2562-2838



# **General Specifications**

Orderable Generator Model Number	GMKD2500
Manufacturer	Kohler
Engine: model	KD62V12
Alternator Choices	KH06930TO4D
	KH07000TO4D KH07770TO4D
	KH07770TO4D KH08100TO4D
	KH08430TO4D
	KH09270TO4D
Performance Class	Per ISO 8528-5
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	651 (172.0)
Fuel Consumption, L/hr (gal./hr) 100% at Prime Power	626 (165.3)
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**

				150°C Standby		130°C Standby		125°C Prime F		105°C Prime F	
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps
	347/600	3	60	2500/3125	3008	2500/3125	3008	2270/2838	2731	2250/2812	2706
KH07000TO4D	2400/4160	3	60	2500/3125	434	2500/3125	434	2270/2838	394	2250/2812	391
	277/480	3	60	2500/3125	3759	2500/3125	3759	2270/2838	3414	2270/2838	3414
KH07770TO4D	347/600	3	60	2500/3125	3008	2500/3125	3008	2270/2838	2731	2270/2838	2731
	2400/4160	3	60	2500/3125	434	2500/3125	434	2270/2838	394	2270/2838	394
	240/416	3	60	2500/3125	4338	2500/3125	4338	2270/2838	3939	2270/2838	3939
	277/480	3	60	2500/3125	3759	2500/3125	3759	2270/2838	3414	2270/2838	3414
KH08430TO4D	347/600	3	60	2500/3125	3008	2500/3125	3008	2270/2838	2731	2270/2838	2731
	2400/4160	3	60	2500/3125	434	2500/3125	434	2270/2838	394	2270/2838	394

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.

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				130°C Standby		105°C Rise Prime Rating	
Alternator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps
	3810/6600	3	60	2500/3125	274	2270/2838	249
KH08100TO4D	7200/12470	3	60	2250/2812	131	2050/2562	119
KH08100104D	7620/13200	3	60	2380/2975	131	2180/2725	120
	7970/13800	3	60	2500/3125	131	2270/2838	119
	3810/6600	3	60	2500/3125	274	2270/2838	249
KH09270TO4D	7200/12470	3	60	2500/3125	145	2270/2838	132
	7620/13200	3	60	2500/3125	137	2270/2838	125
	7970/13800	3	60	2500/3125	131	2270/2838	119

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)	2700 (3621)			
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 §	6, Cartridge			
Oil cooler	Water-Cooled			
§ Kohler recommends the use of Kohler Genuine oil and filters.				

Fuel System	60 Hz
Fuel supply line, min. ID, mm (in.)	25 (1.0)
Fuel return line, min. ID, mm (in.)	19 (0.75)
Max. fuel flow, Lph (gph)	650 (171.7)
Min./max. fuel pressure at engine supply connection, kPa (in. Hg)	- 30/30 (- 8.8/8.8)
Maximum diesel fuel lift, m (ft.)	3.7 (12)
Max. return line restriction, kPa (in. Hg)	30 (8.9)
Fuel filter: quantity, type	2, Primary Engine Filter 2, Fuel/Water Separator
Recommended fuel	#2 Diesel ULSD / RD / HVO

Fuel Consumption**	60 Hz
Diesel, Lph (gph) at % load	Standby Rating
100%	651 (172.0)
75%	572 (151.0)
50%	389 (102.8)
25%	222 (58.7)
Diesel, Lph (gph) at % load	Prime Rating
100%	626 (165.3)
75%	492 (130.0)
50%	358 (94.7)
25%	204 (53.8)

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.)	870 (4	9476)
Charge cooler water flow, Lpm (gpm)	662 (	(174)
Heat rejected to charge cooling water at rated kW, dry exhaust, kW (Btu/min.)	760 (4	3220)
Water pump type	Centr	ifugal
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 <sub>2</sub> O)	0.125	(0.5)

\* 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 <sub>2</sub> O)	70 (23.5)

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



# Industrial Diesel Generator Set - KD2500 Tier 2 EPA-Certified for Stationary Emergency Applications

Exhaust System	60 Hz
Exhaust flow at rated kW, m <sup>3</sup> /min. (cfm)	579 (20447)
Exhaust temperature at rated kW at	
25°C (77°F) ambient, dry exhaust, °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, m <sup>3</sup> /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 <sup>3</sup> /min. (scfm)‡	1116 (39398)
Combustion air, m <sup>3</sup> /min. (cfm)	208 (7345)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	150 (8530)
Alternator, kW (Btu/min.)	160 (9099)

‡ Air density = 1.20 kg/m<sup>3</sup> (0.075 lbm/ft<sup>3</sup>)

Alternator S	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	KH07000TO4D	8987
13800 V	KH08100TO4D	5087
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.



# Industrial Diesel Generator Set - KD2500 Tier 2 EPA-Certified for Stationary Emergency Applications

# 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<sup>®</sup> 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 HCAI Pre- Approval
- CSA Certified
- □ IBC Seismic Certification
- UL 2200 Listing
- CULus
- Florida Dept. of Environmental Protection (FDEP) Compliance (fuel tanks only)

# Warranty Information

- A standard three-year or 1000-hour limited warranty for standby applications. 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**

Type       Failing       Battery         Magnetic Trip       00%         Thermal Magnetic Trip       100%         Bettery Reck and Cables       Battery Hester: 100 W, 120 V, 1Ph         Bettery Time (LS)       Deparation         Generator Mounted       Reductadmit Starters         Generator Mounted       Reductadmit Starters         Battery Hester: 100 W, 120 V, 1Ph       Battery Hester: 100 W, 120 V, 1Ph         Battery Hester: 100 W, 120 V, 1Ph       Battery Hester: 100 W, 120 V, 1Ph         Battery Hester: 100 W, 120 V, 1Ph       Battery Hester: 100 W, 120 V, 1Ph         Battery Hester: 100 W, 120 V, 1Ph       Battery Hester: 100 W, 120 V, 1Ph         Battery Hester: 100 W, 120 V, 1Ph       Battery Hester: 100 W, 120 V, 1Ph         Battery Hester: 100 W, 120 V, 1Ph       Battery Hester: 100 W, 120 V, 1Ph         Battery Hester: 100 W, 120 V, 1Ph       Battery Hester: 100 W, 120 V, 1Ph         Battery Hester: 100 W, 120 V, 1Ph       Battery Hester: 100 W, 120 V, 1Ph         Battery Hester: 100 W, 120 V, 1Ph       Battery Hester: 100 W, 120 V, 1Ph         Battery Hester: 100 W, 120 V, 1Ph       Battery Hester: 100 W, 120 V, 1Ph         Battery Hester: 100 W, 120 V, 12	 Circuit Breakers		Electrical System
□ Magnetic Trip       □ 00%         □ Thermal Magnetic Trip       □ 00%         □ Electronic Trip (Li)       ○ Operation         □ State Placetrix 100 W, 120 V, 1Ph         □ Electronic Trip with       □ Menual         □ State Placetrix 100 W, 120 V, 1Ph         □ Beterionic Trip with       □ Beterionic Trip with         □ Remote Mounted       □ Electronic Trip with         □ Remote Mounted       □ Restriction Gauge (for fuel/water separator)         □ Remote Mounted Circuit Breakers       □ Generat Maintenance         □ NEMA 1 (15: 5000 A)       □ Overhaul         □ Reprovate An (15: 5000 A)       □ Overhaul         □ Reprovate and Latings       □ Ar Cleaner, Heavy Duty (locse)         □ Arconence, Fuel Optimized Engine       □ Ar Cleaner, Heavy Duty (locse)         □ Arconence, Fuel Optimized Engine       □ Ar Cleaner, Heavy Duty (locse)         □ California HCAI Pre-Approval       □ Art Cleaner, Heavy Duty (locse)         □ California HCAI Pre-Approval       □ California HCAI Pre-Approval         □ California HCAI Pre-Approval       □ Retarty Charger (1 Ph)         □ Utaso Dept. of Environmental Protection (FDEP) Comp	 Type Rating		-
□ Thermal Magnetic Trip □ 100%       Battery Heater; 100 W, 120 V, 1Ph         □ Electronic Trip With □ Manual       Battery Heater; 100 W, 120 V, 1Ph         □ Beteronic Trip With □ Beteronically Operated (for paralleling)       Pressent Mounted         □ Generator Mounted       ■ Beteronic Park and Cables         □ Remote Mounted       ■ Restriction Gauge (for fuel(water separator)         □ Beteronic Mounted       ■ Restriction Gauge (for fuel(water separator)         □ Remote Mounted Circuit Breakers       ■ Restriction Gauge (for fuel(water separator)         □ Remote Mounted       □ Restriction Gauge (for fuel(water separator)         □ Remote Mounted       □ Restriction Gauge (for fuel(water separator)         □ Remote Mounted       □ Restriction Gauge (for fuel(water separator)         □ Remote Mounted       □ Restriction Gauge (for fuel(water separator)         □ Remote Mounted       □ Restriction Gauge (for fuel(water separator)         □ Remote Mounted       □ Restriction Gauge (for fuel(water separator)         □ Remote Mounted       □ Restriction Gauge (for fuel(water separator)         □ Restriction Separation Indicator       □ Restriction Indicator         □ Restriction Separation Indicator       □ Automatic OI Replenishment System         □ Califonia HCAI Pre-Approval       □ Automatic OI Replenishment System         □ Califonia HCAI Pre-Approval       □ Electrical Packag	Magnetic Trip 🔲 80%	_	
Electronic Trip (IL)       Operation         Battery Reack and Cables         Short Time (LSI)       Electrically Operated (for paralleling)         Greater Mounited       Floxible Foul Lines         Remote Mounted       Floxible Foul Lines         Bus Bar (for remote mounted breakers)       Electronic Trip (IL)         Enclosed Remote Mounted Circuit Breakers       Generator Maintenance         NEMA 1(15: 5000, A)       Overhaul         Engine Type       Production         Kboxox: F Fuel Optimized Engine       Air Cleaner, Heavy Duty (loose)         Approvals and Listings       Air Cleaner, Heavy Duty (loose)         California HCAI Pre-Approval       Production         GSA Certified       Engine Type         Culture       California Hora Saembly         UL200 Listing       Rated Power Factor Testing         Culture       Control Contegres Enclosure selection)         Bosund Level 1 Enclosure/Fuel Tank Package       Wire Battery Charger (1 Ph)         Sound Level 1 Enclosure/Fuel Tank Package       Wire Generator Heater (1 Ph)         Open Unit       Streat Stiencer, Critical       Streat Stiencer, Critical         Stabust Stiencer, Critical       Streat Stiencer, Critical       Streat Stiencer, Critical         Phout/Output, Digital       Unput/Output, Digital <td< td=""><td>Thermal Magnetic Trip 🔲 100%</td><td>_</td><td></td></td<>	Thermal Magnetic Trip 🔲 100%	_	
Electronic Trip with       Manual         Short Time (LS)       Electrically Operated (for paralleling)         Generator Mounted       Fuel System         Generator Mounted       Restriction Gauge (for fuel/water separator)         Bus Bar (for remote mounted breakers)       Electrical Package (for fuel/water separator)         Chicuit Breaker Mounted       Prestriction Gauge (for fuel/water separator)         Bus Bar (for remote mounted breakers)       Electrical Package (for Jul)         Findes Paper State Statement       NEMA 1 (15-5000 A)         NEMA 1 (15-5000 A)       Overhaul         Broits Type       Production         KDxxxxx Fruel Optimized Engine       Air Cleaner, Heavy Duty (locse)         Aborxxx Fruel Optimized Engine       Air Cleaner, Heavy Duty (locse)         California HCAI Pre- Approval       Engine Fuids (oil and coolant) Added         California HCAI Pre- Approval       Engine Fuids (oil and coolant) Added         California HCAI Pre- Approval       Engine Fuids (oil and coolant) Added         California HCAI Pre- Approval       Engine Fuids (oil and coolant) Added         California HCAI Pre- Approval       Engine Fuids (oil and coolant) Added         California HCAI Pre- Approval       Engine Fuids (oil and coolant) Added         California HCAI Pre- Approval       Engine Fuids (orelect T Ph)         B	Electronic Trip (LI) <b>Operation</b>	_	•
Short Time (LSI)       Electrically Operated (for paralleling)         Circuit Breaker Mounting       Flexible Fuel Lines         Remote Mounted       Remote Mounted Circuit Breakers)         Enclosed Remote Mounted Circuit Breakers       Generator Maintenance         NEMA (15: 5000 A)       Overhaul         MEMA (15: 5000 A)       Overhaul         Enclosed Remote Mounted Circuit Breakers       General Maintenance         MCDoxoc: F Fuel Optimized Engine       Air Cleaner, Heavy Duty (locse)         Approvals and Listing       Air Cleaner, Heavy Duty (locse)         California ICAI Pre-Approval       Air Cleaner, Heavy Duty (locse)         California ICAI Pre-Approval       Air Cleaner, Heavy Duty (locse)         California ICAI Pre-Approval       Restification Inducator         UL 200 Listing       Rested Power Factor Testing         ULUs       Enclosed Init       Rested Power Factor Testing         ULus       Bisc Electrical Package (Requires Sclosure selection)         Sound Level 1 Enclosure/Fuel Tank Package       Wire Battery Charger (1 Ph)         Wire Battery Charger (1 Ph)       Wire Generator Heater (1 Ph)         Open Unit       S-Year Basic Limited Warranty         Exhaust Silencer, Chepital       S-Year Basic Limited Warranty         Stelle Exhaust Connector, Stainless Steel       Overal Size, max.	Electronic Trip with 🔲 Manual		-
Christer Verter Normation         Generator Mounted         Remote Mounted         Bus Bar (for remote mounted breakers)         Enclosed Remote Mounted Circuit Breakers         NEMA 1 (15-5000 A)         NEMA 15 (15-1200 A)         Engine Type         California HCAI Pro-Approval         California HCAI Pre-Approval         Basic Electrical Package (Requires Enclosure Selection)         Sound Level 1 Enclosure/Fuel Tank Package         Wire Controller Heater (1 Ph)         Ware Canerator Heater (1 Ph)         Ware Canerator Heater (1 Ph)         Sound Level 1 Enclosure/Fuel Tank Package	Short Time (LSI)   Electrically Operated (for paralleling)		
Optimized Moduled       Restriction Gauge (for fuel/water separator)         Bends Mounted       Restriction Gauge (for fuel/water separator)         Buss Bar (for renote mounted breakers)       Itterature         Choiced Remote Mounted Circuit Breakers       General Maintenance         NEMA 1 (15-5000 A)       Overhaul         Buss Bar (for renote mounted breakers)       General Maintenance         Kbxxxx Tier 2 EPA-Certified Engine       Air Cleaner, Heavy Duty (lose)         Abboxxx Tier 2 EPA-Certified Engine       Air Cleaner, Heavy Duty (lose)         Approvale and Listings       Air Cleaner, Heavy Duty (lose)         California HCAI Pre-Approval       Automatic Oil Replenishment System         California HCAI Pre-Approval       Automatic Oil Replenishment System         California HCAI Pre-Approval       Rated Power Factor Testing         UL 220 Listing       Electrical Package (select 1 Ph or 3 Ph)         UL 230 Listing       Basic Electrical Package (select 1 Ph or 3 Ph)         Sound Level 1 Enclosure/Fuel Tank Package       Wire Goncritor Heater (1 Ph)         Sound Level 2 Enclosure/Fuel Tank Package       Wire Goncritor Heater (1 Ph)         Sound Level 2 Enclosure/Fuel Tank Package       Wire Goncritor Heater (1 Ph)         Sound Level 2 Enclosure/Fuel Tank Package       Other         Input/Output, Digital       Sound Level 2 Enclosure/Fue	Circuit Breaker Mounting		•
Institute mounted oriented mounted breakers)         Enclosed Remote Mounted Circuit Breakers)         Enclosed Remote Mounted Circuit Breakers         NEMA 1(15-5000 A)         NEMA 3R (15-1200 A)         Engine Type         KDxxxx Tier 2 EPA-Certified Engine         Approvala and Listings         Gatiornia HCAI Pre- Approval         GSA Certified         California HCAI Pre- Approval         GSA Certified         GSA Certified         GSA Certified         Guitoria Dept. of Environmental Protection (FDEP) Compliance         (fuel tanks only)         Enclosed Unit         Sound Level 1 Enclosure/Fuel Tank Package         Sound Level 2 Enclosure/Fuel Tank Package         Open Unit         Exhaust Silencer, Critical         Shed (APMBO2 only)         Exhaust Silencer, Contical         Input/Output, Digital         Input/Output, Digital         Input/Output, Digital         Bock Heater, 9000W, 400 V, (Select 1 Ph or 3 Ph) *	Generator Mounted		
Enclosed Remote Mounted Circuit Breakers       General Maintenance         NEMA 1 (15-5000 A)       NFPA 110         NEMA 1 (15-5000 A)       Overhaul         Engine Type       Production         KDxxxx: Fre 2 EPA-Certified Engine       Air Cleaner, Heavy Duty (loose)         Approvals and Listings       Air Cleaner, Heavy Duty (loose)         California HCAI Pre-Approval       Engine Titles (oil and coolent) Added         CSA Certified       Centrifugal Oil Filter Assembly         IBC Selsmic Certification       Engine Fluids (oil and coolent) Added         Culus       Florida Dept. of Environmental Protection (FDEP) Compliance (rule tanks only)         Florida Dept. of Environmental Protection (FDEP) Compliance (rule tanks only)       Basic Electrical Package (select 1 Ph or 3 Ph)         Sound Level 1 Enclosure/Fuel Tank Package       Wire Controller Heater (1 Ph)         Open Unit       Wire Controller Heater (1 Ph)         Open Unit       S-Vear Basic Limited Warranty         Exhaust Silencer, Critical       S-Vear Basic Limited Warranty         Exhaust Silencer, Critical       S-Vear Major Components Limited Warranty         Input/Output, Digital       Input/Output, Digital         Input/Output, Digital       Overail Size, max., L x W x H, mm (n.):       e958 x 2915 x 3301 (27.9, x 114.8, x 130.0) 27033 (59590)         Manual Key Switch	Remote Mounted		Restriction Gauge (for fuel/water separator)
NEMA 1 (15-5000 A)       NFPA 110         NEMA 3R (15-1200 A)       Overhaul         Engine Type       Production         KDxxxx: F 2 EPA-Certified Engine       Air Cleaner, Heavy Duty (loose)         Approvals and Listings       Air Cleaner, Heavy Duty (loose)         California HCAI Pre-Approval       Air Cleaner, Heavy Duty (loose)         California HCAI Pre-Approval       Air Cleaner, Heavy Duty (loose)         California HCAI Pre-Approval       Engine Fluids (oil and colanth) Added         CSA Certified       Engine Fluids (oil and colanth) Added         BCS Seismic Certification       Flated Power Factor Testing         UL 2200 Listing       Hated Power Factor Testing         UL 2200 Listing       Wire Battery Charger (1 Ph)         Sound Level 1 Enclosure/Fuel Tank Package       Wire Battery Charger (1 Ph)         Sound Level 2 Enclosure/Fuel Tank Package       Wire Generator Heater (1 Ph)         Open Unit       S-Year Basic Limited Warranty         Exhaust Silencer, Critical       S-Year Basic Limited Warranty         Flexible Exhaust Silencer, Nespital       S-Year Comprehensive Limited Warranty         Input/Output, Digital       S-Year Basic Limited Warranty         Input/Output, Digital       Overall Size, max., L x W x H, mm (in.):       e058 x 2015 x 3301 (273 x 114.8 x 130.0)         Weight, radiator mo	Bus Bar (for remote mounted breakers)		Literature
NEMA 3R (15-1200 A)       Overhaul         Engine Type       Production         KDxxxx:F Lel Optimized Engine       Air Cleaner, Heavy Duty (loose)         Approvals and Listings       Air Cleaner, Restriction Indicator         California HCAI Pre: Approval       Bair Cleaner, Heavy Duty (loose)         CSA Certified       Engine Fluids (oil and coolant) Added         CSA Certified       Centrifugal Oil Filter Assembly         UL 2200 Listing       Rated Power Factor Testing         UL 2200 Listing       Electrical Package (Requires Enclosure selection)         Baix Electrical Package (select 1 Ph or 3 Ph)       Baix Electrical Package (select 1 Ph or 3 Ph)         Wire Bottery Charger (1 Ph)       Wire Controller Heater (1 Ph)         Open Unit       Warranty (Standby Applications only)         S-Vear Baix Climited Warranty       5-Vear Comprehensive Limited Warranty         Exhaust Silencer, Alogo Switch       Dimensions and Weights         Input/Output, Digital       Dimensions and Weights         Input/Output, Digital       Dimensions and Weights         Back Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *       Biock Heater; 9000 W, 340 V, (Select 1 Ph or 3 Ph) *         Biock Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *       Biock Heater; 9000 W, 340 V, (Select 1 Ph or 3 Ph) *         Biock Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *       Bio	Enclosed Remote Mounted Circuit Breakers		General Maintenance
Engine Type       Production         Kbxxxx:F Fuel Optimized Engine       Air Cleaner, Heavy Duty (loose)         Approvals and Listings       Air Cleaner, Heavy Duty (loose)         California HCAI Pre-Approval       Air Cleaner, Heavy Duty (loose)         California HCAI Pre-Approval       Automatic Oil Replenishment System         California HCAI Pre-Approval       Engine Fluds (oil and coolant) Added         California HCAI Pre-Approval       California HCAI Pre-Approval         California HCAI Pre-Approval       Engine Fluds (oil and coolant) Added         California HCAI Pre-Approval       California HCAI Pre-Approval         Coll Seismic Certification       Basic Electrical Package (select 1 Ph or 3 Ph)         UL 2200 Level 1 Enclosure/Fuel Tank Package       Wire Controller Heater (1 Ph)         Sound Level 1 Enclosure/Fuel Tank Package       Wire Controller Heater (1 Ph)         Sound Level 2 Enclosure/Fuel Tank Package       Sound Level 2 Enclosure/Fuel Tank Package         Sound Level 2 Enclosure/Fuel Tank Package       Sound Level 2 Enclosure/Fuel Tank Package         Dentit       Sthaust Silencer, Hospital       5-Year Basic Limited Warranty         Flexible Entry Stop Switch       Sound Level 2 Enclosure/Fuel Tank Package       Other         Input/Output, Digital       Sound Level 2 Enclosure/Fuel Tank Package       Overall Size, max., L x W x H, mm (in.):       2658 x 291	NEMA 1 (15-5000 A)		NFPA 110
Engine Type         KDxxxx: Fruel Optimized Engine         Approvals and Listings         California HCAI Pre-Approval         California HCAI Pre-Approval         CSA Certified         BCS Seismic Certification         U. 2200 Listing         Clue tanks only         Enclosed Unit         Sound Level 1 Enclosure/Fuel Tank Package         Open Unit         Open Unit         Open Unit         Exhaust Silencer, Critical         Imput/Output, Digital         Imput/Output, Digital         Imput/Output, Digital         Imput/Output, Thermocouple (standard on 4160 V and above)         Locad Shed (APM802 only)         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block H	NEMA 3R (15-1200 A)		Overhaul
KDxxxx-F Fuel Optimized Engine       Air Cleaner, Heavy Duty (loose)         Approvals and Listings       Air Cleaner, Heavy Duty (loose)         California HCAI Pre-Approval       Automatic Oir Replenishment System         CSA Certified       Engine Fluids (oil and coolant) Added         U1 2200 Listing       Rated Power Factor Testing         UL 2200 Listing       Rated Power Factor Testing         UL 2200 Listing       Electrical Package (Requires Enclosure selection)         Basic Electrical Package (Requires Enclosure selection)       Basic Electrical Package (select 1 Ph or 3 Ph)         Wire Battery Charger (1 Ph)       Wire Generator Heater (1 Ph)         Sound Level 1 Enclosure/Fuel Tank Package       Wire Generator Heater (1 Ph)         Open Unit       Warranty Standby Applications only)         Exhaust Silencer, Critical       5-Year Comprehensive Limited Warranty         Flexible Exhaust Connector, Stainless Steel       Other         Input/Output, Digital       Input/Output, Thermocouple (standard on 4160 V and above)         Load Shed (APM802 only)       Manual Key Switch         Remote Serial Annunciator Panel       Overall Size, max., L x W x H, mm (in.): (958 x 2915 x 3301 (273.9 x 114.8 x 130.0)         Weight, radiator model, max. wet, kg (lb.):       27033 (59598)         Block Heater; 9000 W, 200 V, (Select 1 Ph or 3 Ph) *       Shock Heater; 9000 W, 200 V, (Select 1 P	Engine Type		Production
Approvals and Listings       Air Cleaner Restriction Indicator         California HCAI Pre-Approval       Automatic Oil Replenishment System         CSA Certified       Engine Fluids (oil and coolant) Added         UL 2200 Listing       Catifundia Unit System         cUL 2200 Listing       Rated Power Factor Testing         CULus       Electrical Package (Requires Enclosure selection)         Basic Electrical Package (select 1 Ph or 3 Ph)         Sound Level 1 Enclosure/Fuel Tank Package       Wire Controller Heater (1 Ph)         Open Unit       Sound Level 2 Enclosure/Fuel Tank Package         Exhaust Silencer, Critical       S-Year Basic Limited Warranty         Exhaust Silencer, Critical       S-Year Comprehensive Limited Warranty         Flexible Exhaust Connector, Stainless Steel       Invit/Output, Thermocouple (standard on 4160 V and above)         Lockable Emergency Stop Switch       Outer         LockAble Emergency Stop Switch       Overall Size, max., L x W x H, mm (in.):         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *       Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *       Wieght, radiator model, max. wet, kg (b):         27033 (59598)       Immersions and Weights         Dick Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *       Shock Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *	KDxxxx Tier 2 EPA-Certified Engine		Miscellaneous
Approvals and Losings         California HCAI Pre-Approval         California HCAI Pre-Approval         California HCAI Pre-Approval         BC Seismic Certification         UL 2200 Listing         CULUs         Florida Dept. of Environmental Protection (FDEP) Compliance (fuel tanks only)         Enclosed Unit         Sound Level 1 Enclosure/Fuel Tank Package         Sound Level 2 Enclosure/Fuel Tank Package         Sound Level 2 Enclosure/Fuel Tank Package         Wire Controller Heater (1 Ph)         Wire Controller Heater (1 Ph)         Sthaust Silencer, Critical         Exhaust Silencer, Critical         Input/Output, Digital         Input/Output, Digital         Input/Output, Digital         Input/Output, Digital         Input/Output, Digital         Remote Emergency Stop Switch         Locklab Emergency Stop Switch         Dick Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) * <td>KDxxxx-F Fuel Optimized Engine</td> <td></td> <td>Air Cleaner, Heavy Duty (loose)</td>	KDxxxx-F Fuel Optimized Engine		Air Cleaner, Heavy Duty (loose)
California HCAI Pre-Approval       Automatic Oil Replenishment System         CSA Certified       Engine Fluids (oil and coolant) Added         IBC Seismic Certification       Instruction (Gamma Coolant) Added         CULus       Rated Power Factor Testing         Clus       Electrical Package (Requires Enclosure selection)         Basic Electrical Package (select 1 Ph or 3 Ph)         Mire Battery Charger (1 Ph)         Sound Level 1 Enclosure/Fuel Tank Package         Sound Level 2 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 Controller Heater (1 Ph)         Open Unit         Exhaust Silencer, Critical         Exhaust Silencer, Critical         Flexible Exhaust Connector, Stainless Steel         Input/Output, Digital         Input/Output, Digital         Input/Output, Digital         Input/Output, Thermocouple (standard on 4160 V and above)         Lockable Emergency Stop Switch         Lockable Emergency Stop Switch         Dockine Error (900 W, 208 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 208 V, (Se	Approvals and Listings		Air Cleaner Restriction Indicator
□ CSA Certified       □ Engine Fluids (oil and coolant) Added         □ BC Seismic Certification       □ Centrifugal Oil Filter Assembly         □ UL 2200 Listing       □ Electrical Package (Requires Enclosure selection)         □ Florida Dept. of Environmental Protection (FDEP) Compliance (fuel tanks only)       □ Reice Package (Requires Enclosure selection)         □ Boild Level 1 Enclosure/Fuel Tank Package       □ Wire Back Heater (select 1 Ph or 3 Ph)         □ Sound Level 2 Enclosure/Fuel Tank Package       □ Wire Controller Heater (1 Ph)         □ Sound Level 2 Enclosure/Fuel Tank Package       □ Wire Controller Heater (1 Ph)         □ Sund Level 2 Enclosure/Fuel Tank Package       □ Wire Controller Heater (1 Ph)         □ Sund Level 2 Enclosure/Fuel Tank Package       □ Wire Controller Heater (1 Ph)         □ Sund Level 2 Enclosure/Fuel Tank Package       □ Wire Controller Warranty         □ Statust Silencer, Critical       □ S-Year Basic Limited Warranty         □ Exhaust Silencer, Hospital       □ S-Year Basic Limited Warranty         □ Input/Output, Digital       □ S-Year Basic Limited Warranty         □ Input/Output, Digital       □ Input/Output, Digital       □ Cooling System         □ Load Shed (APM802 only)       □ Mersions and Weights       □ Coeling System         □ Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *       □ Overall Size, max., L x W x H, mm (in.): 27033 (59598)         □ Block			Automatic Oil Replenishment System
IBC Seismic Certification       □ Certification         UL 2200 Listing       □ Rated Power Factor Testing         □ dULus       Electrical Package (Requires Enclosure selection)         □ florida Dept. of Environmental Protection (FDEP) Compliance (fuel tanks only)       □ Basic Electrical Package (select 1 Ph or 3 Ph)         □ Basic Electrical Package (select 1 Ph or 3 Ph)       □ Wire Battery Charger (1 Ph)         □ Sound Level 1 Enclosure/Fuel Tank Package       □ Wire Generator Heater (1 Ph)         □ Sound Level 2 Enclosure/Fuel Tank Package       □ Wire Generator Heater (1 Ph)         □ Sound Level 2 Enclosure/Fuel Tank Package       □ Wire Generator Heater (1 Ph)         □ Sound Level 2 Enclosure/Fuel Tank Package       □ Wire Controller Heater (1 Ph)         □ Sound Level 2 Enclosure/Fuel Tank Package       □ Wire Controller Warranty         □ Exhaust Silencer, Critical       □ 5-Year Comprehensive Limited Warranty         □ Exhaust Silencer, Hospital       □ 5-Year Compronents Limited Warranty         □ Floridouput, Digital       □ 10-Year Major Components Limited Warranty         □ Input/Output, Digital       □ 10-Year Major Components Limited Warranty         □ Load Shed (APM802 only)       □ Manual Key Switch         □ Remote Emergency Stop Switch       □ Overall Size, max., L x W x H, mm (in.): 6958 x 2915 x 3301 (273.9 x 114.8 x 130.0)         □ Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *       B			Engine Fluids (oil and coolant) Added
□       UL 2200 Listing         □       CULus         □       Florida Dept. of Environmental Protection (FDEP) Compliance (fuel tarks only)       □         □       Basic Electrical Package (Requires Enclosure selection)         □       Basic Electrical Package (select 1 Ph or 3 Ph)         □       Wire Battery Charger (1 Ph)         □       Wire Both Heater (select 1 Ph or 3 Ph)         □       Sound Level 1 Enclosure/Fuel Tank Package         □       Sound Level 2 Enclosure/Fuel Tank Package         □       Wire Generator Heater (1 Ph)         □       Open Unit         □       Sound Level 2 Enclosure/Fuel Tank Package         □       Sound Level 2 Enclosure/Fuel Tank Package         □       Wire Generator Heater (1 Ph)         □       Open Unit         □       Sound Level 2 Enclosure/Fuel Tank Package         □       Dimensions and Weights         □       Dinput/Output, Digital         □			Centrifugal Oil Filter Assembly
cULus       Electrical Package (Requires Enclosure selection)         □ Florida Dept. of Environmental Protection (FDEP) Compliance (fuel tanks only)       □ Basic Electrical Package (select 1 Ph or 3 Ph)         □ Sund Level 1 Enclosure/Fuel Tank Package       □ Wire Battery Charger (1 Ph)         □ Sound Level 2 Enclosure/Fuel Tank Package       □ Wire Controller Heater (1 Ph)         ○ Open Unit       Warranty (Standby Applications only)         □ Exhaust Silencer, Critical       □ 5-Year Basic Limited Warranty         □ Exhaust Silencer, Hospital       □ 5-Year Comprehensive Limited Warranty         □ Flexible Exhaust Connector, Stainless Steel       □ 10-Year Major Components Limited Warranty         □ Input/Output, Digital       □         □ Input/Output, Digital       □         □ Input/Output, Digital       □         □ Input/Output, Digital       □         □ Remote Emergency Stop Switch       □         □ Lockable Emergency Stop Switch       □         □ Block Heater; 9000 W, 200 V, (Select 1 Ph or 3 Ph) *         □ Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *         □ Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □ Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □ Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □ Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □ Block Heater; 900			Rated Power Factor Testing
□       Florida Dept. of Environmental Protection (FDEP) Compliance (fuel tanks only)       □       Difference         □       Basic Electrical Package (select 1 Ph or 3 Ph)         □       Sound Level 1 Enclosure/Fuel Tank Package       □       Wire Controller Heater (1 Ph)         □       Sound Level 2 Enclosure/Fuel Tank Package       □       Wire Controller Heater (1 Ph)         □       Open Unit       □       Wire Generator Heater (1 Ph)         □       Open Unit       □       S-Year Basic Limited Warranty         □       Exhaust Silencer, Critical       □       S-Year Basic Limited Warranty         □       S-type ar Major Components Limited Warranty       S-Year Major Components Limited Warranty         □       Input/Output, Digital       □       □         □       Input/Output, Digital       □       □         □       Input/Output, Thermocouple (standard on 4160 V and above)       □       Other         □       Input/Output, Digital       □       □       □         □       Input/Output, Thermocouple (standard on 4160 V and above)       □       □       0         □       Lockable Emergency Stop Switch       □       □       (273.9 × 114.8 × 130.0)       (273.9 × 114.8 × 130.0)       (270.33 (59598)         □       Block Heate	-	_	
(fuel tanks only)       Image: (bit of the of		_	
Enclosed Unit       Wire Block Heater (select 1 Ph or 3 Ph)         Sound Level 1 Enclosure/Fuel Tank Package       Wire Controller Heater (1 Ph)         Open Unit       Warranty (Standby Applications only)         Exhaust Silencer, Critical       5-Year Basic Limited Warranty         Exhaust Silencer, Hospital       5-Year Comprehensive Limited Warranty         Flexible Exhaust Connector, Stainless Steel       10-Year Major Components Limited Warranty         Input/Output, Digital       0ther         Input/Output, Thermocouple (standard on 4160 V and above)       0         Lockable Emergency Stop Switch       0verall Size, max., L x W x H, mm (in.):         Cooling System       Overall Size, max., L x W x H, mm (in.):         Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *       Block Heater; 9000 W, 380 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *       Tot of the or 3 Ph) *         Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *       Tot of the or 3 Ph) *         Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *       Tot of the or 3 Ph) *         Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *       Tot of the or 3 Ph) *         Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *       Tot of the or 3 Ph) *         Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *       Tot of the or 3 Ph) *         Block Heater; 9000 W, 480 V,			
□       Sound Level 1 Enclosure/Fuel Tank Package         □       Sound Level 2 Enclosure/Fuel Tank Package         □       Open Unit         □       Wire Generator Heater (1 Ph)         □       Den Unit         □       Exhaust Silencer, Critical         □       Exhaust Silencer, Hospital         □       Flexible Exhaust Connector, Stainless Steel         □       Input/Output, Digital         □       Input/Output, Thermocouple (standard on 4160 V and above)         □       Lockable Emergency Stop Switch         □       Cooling System         □       Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *         □       Block Heater; 9000 W, 280 V, (Select 1 Ph or 3 Ph) *         □       Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □       Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □       Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □       Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □       Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □       Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □       Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □       Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         □	Enclosed Unit		
□       Sound Level 2 Enclosure/Fuel Tank Package       □       Wire Generator Heater (1 Ph)         □       Open Unit       □       Warranty (Standby Applications only)         □       Exhaust Silencer, Critical       □       5-Year Basic Limited Warranty         □       Exhaust Silencer, Hospital       □       5-Year Comprehensive Limited Warranty         □       Flexible Exhaust Connector, Stainless Steel       □       10-Year Major Components Limited Warranty         □       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       Overall Size, max., L x W x H, mm (in.):       6958 x 2915 x 3301 (273.9 x 114.8 x 130.0)         0       Cooling System       □       Overall Size, max., L x W x H, mm (in.):       6958 x 2915 x 3301 (273.9 x 114.8 x 130.0)         0       Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *       □       □       □         □       Block Heater; 9000 W, 380 V, 3 Ph *       □       □       □         □       Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *	Sound Level 1 Enclosure/Fuel Tank Package		
<ul> <li>Exhaust Silencer, Critical</li> <li>Exhaust Silencer, Hospital</li> <li>Flexible Exhaust Connector, Stainless Steel</li> <li>Controller</li> <li>Input/Output, Digital</li> <li>Input/Output, Thermocouple (standard on 4160 V and above)</li> <li>Load Shed (APM802 only)</li> <li>Manual Key Switch</li> <li>Remote Emergency Stop Switch</li> <li>Lockable Emergency Stop Switch</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Kequired for Ambient Temperatures Below 10°C (50°F)</li> </ul>	Sound Level 2 Enclosure/Fuel Tank Package		Wire Generator Heater (1 Ph)
<ul> <li>Exhaust Silencer, Hospital</li> <li>Flexible Exhaust Connector, Stainless Steel</li> <li>Input/Output, Digital</li> <li>Input/Output, Thermocouple (standard on 4160 V and above)</li> <li>Load Shed (APM802 only)</li> <li>Manual Key Switch</li> <li>Remote Emergency Stop Switch</li> <li>Lockable Emergency Stop Switch</li> <li>Bemote Serial Annunciator Panel</li> <li>Cooling System</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Kenquired for Ambient Temperatures Below 10°C (50°F)</li> </ul>	Open Unit		Warranty (Standby Applications only)
<ul> <li>Flexible Exhaust Connector, Stainless Steel</li> <li>Input/Output, Digital</li> <li>Input/Output, Thermocouple (standard on 4160 V and above)</li> <li>Load Shed (APM802 only)</li> <li>Manual Key Switch</li> <li>Remote Emergency Stop Switch</li> <li>Lockable Emergency Stop Switch</li> <li>Lockable Emergency Stop Switch</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Kequired for Ambient Temperatures Below 10°C (50°F)</li> </ul>	Exhaust Silencer, Critical		5-Year Basic Limited Warranty
Controller       Other         Input/Output, Digital       Input/Output, Thermocouple (standard on 4160 V and above)       Imput/Output, Thermocouple (standard on 4160 V and above)         Load Shed (APM802 only)       Manual Key Switch       Imput/Output, Thermocouple (standard on 4160 V and above)         Load Shed (APM802 only)       Imput/Output, Thermocouple (standard on 4160 V and above)       Imput/Output, Thermocouple (standard on 4160 V and above)         Load Shed (APM802 only)       Imput/Output, Thermocouple (standard on 4160 V and above)       Imput/Output, Thermocouple (standard on 4160 V and above)         Load Shed (APM802 only)       Imput/Output, Thermocouple (standard on 4160 V and above)       Imput/Output, Thermocouple (standard on 4160 V and above)         Load Shed (APM802 only)       Manual Key Switch       Imput/Output, Thermocouple (standard on 4160 V and above)         Imput/Output, Thermocouple (standard on 4160 V and above)       Imput/Output, Thermocouple (standard on 4160 V and above)         Imput/Output, Thermocouple (standard on 4160 V and above)       Imput/Output, Thermocouple (standard on 4160 V and above)         Imput/Output, Thermocouple (standard on 4160 V and above)       Imput/Output, Thermocouple (standard on 4160 V and above)         Imput/Output, Thermocouple (standard on 4160 V and above)       Imput/Output, Thermocouple (standard on 4160 V and above)         Imput/Output, Thermocouple (standard on 4160 V and above)       Imput/Output, Thermocouple (standard on 4160 V and above)	Exhaust Silencer, Hospital		5-Year Comprehensive Limited Warranty
<ul> <li>Input/Output, Digital</li> <li>Input/Output, Thermocouple (standard on 4160 V and above)</li> <li>Load Shed (APM802 only)</li> <li>Manual Key Switch</li> <li>Remote Emergency Stop Switch</li> <li>Lockable Emergency Stop Switch</li> <li>Remote Serial Annunciator Panel</li> <li>Cooling System</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 380 V, 3 Ph *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Required for Ambient Temperatures Below 10°C (50°F)</li> </ul>	Flexible Exhaust Connector, Stainless Steel		10-Year Major Components Limited Warranty
<ul> <li>Input/Output, Thermocouple (standard on 4160 V and above)</li> <li>Load Shed (APM802 only)</li> <li>Manual Key Switch</li> <li>Remote Emergency Stop Switch</li> <li>Lockable Emergency Stop Switch</li> <li>Remote Serial Annunciator Panel</li> <li>Cooling System</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 380 V, 3 Ph *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Required for Ambient Temperatures Below 10°C (50°F)</li> </ul>	Controller		Other
<ul> <li>Load Shed (APM802 only)</li> <li>Manual Key Switch</li> <li>Remote Emergency Stop Switch</li> <li>Lockable Emergency Stop Switch</li> <li>Remote Serial Annunciator Panel</li> <li>Cooling System</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 380 V, 3 Ph *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Required for Ambient Temperatures Below 10°C (50°F)</li> </ul>	Input/Output, Digital		
<ul> <li>Manual Key Switch</li> <li>Remote Emergency Stop Switch</li> <li>Lockable Emergency Stop Switch</li> <li>Remote Serial Annunciator Panel</li> <li>Cooling System</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 380 V, 3 Ph *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> </ul>	Input/Output, Thermocouple (standard on 4160 V and above)		
<ul> <li>Remote Emergency Stop Switch</li> <li>Lockable Emergency Stop Switch</li> <li>Remote Serial Annunciator Panel</li> <li>Cooling System</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 380 V, 3 Ph *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Yeight, radiator model, max. wet, kg (lb.):</li> </ul>	Load Shed (APM802 only)		
<ul> <li>Lockable Emergency Stop Switch</li> <li>Remote Serial Annunciator Panel</li> <li>Cooling System</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 380 V, 3 Ph *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Required for Ambient Temperatures Below 10°C (50°F)</li> </ul>	Manual Key Switch		
<ul> <li>Cooling System</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 380 V, 3 Ph *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> </ul>	Remote Emergency Stop Switch		
Cooling System       (273.9 × 114.8 × 130.0)         Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *       Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 380 V, 3 Ph *       Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *         Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *       The state of the st	Lockable Emergency Stop Switch	Dir	mensions and Weights
<ul> <li>Cooling System</li> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 380 V, 3 Ph *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>* Required for Ambient Temperatures Below 10°C (50°F)</li> </ul>	Remote Serial Annunciator Panel	Ov	rerall Size, max., L x W x H, mm (in.): 6958 x 2915 x 3301
<ul> <li>Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *</li> <li>Block Heater; 9000 W, 380 V, 3 Ph *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li></ul>	 Cooling System	We	
<ul> <li>Block Heater; 9000 W, 380 V, 3 Ph *</li> <li>Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *</li> <li>* Required for Ambient Temperatures Below 10°C (50°F)</li> </ul>	Block Heater; 9000 W, 208 V, (Select 1 Ph or 3 Ph) *		<b>5</b> , <b>1</b>
Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) * * Required for Ambient Temperatures Below 10°C (50°F)	Block Heater; 9000 W, 240 V, (Select 1 Ph or 3 Ph) *		
* Required for Ambient Temperatures Below 10°C (50°F)	Block Heater; 9000 W, 380 V, 3 Ph *	Γ.	
	Block Heater; 9000 W, 480 V, (Select 1 Ph or 3 Ph) *		
	* Required for Ambient Temperatures Below 10°C (50°F)		

--> NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information. G5-587 (KD2500) 7/22k Page 5

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Industrial Diesel Generator Set - KD2500 Tier 2 EPA-Certified for Stationary Emergency Applications

KOHLER CO., Kohler, Wisconsin 53044 USA Phone 920-457-4441, Fax 920-459-1646 For the nearest sales and service outlet in the US and Canada, phone 1-800-544-2444 KOHLERPower.com

# Sound Enclosures and Subbase Fuel Tank

## Sound Level 1 Enclosure Standard Features

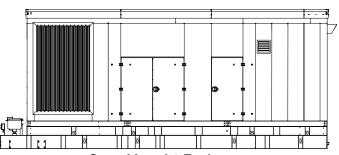
- Lift base or tank-mounted, aluminum construction enclosure with internal-mounted, exhaust silencers.
- Every enclosure has a sloped roof to reduce the buildup of moisture and debris.
- Sound attenuated enclosure that offers noise reduction using acoustic insulation, acoustic-lined air inlets and an acoustic-lined air discharge.
- Fade-, scratch-, and corrosion-resistant Kohler<sup>®</sup>
   Power Armor<sup>™</sup> 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

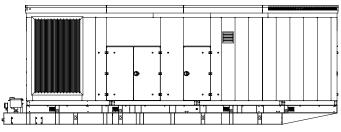
- Includes all of the sound level 1 enclosure features with the addition of up to 51 mm (2 in.) acoustic insulation material, intake sound baffles, vertical air discharge, and secondary silencers.
- Louvered air inlet and vertical outlet hood with 90 degree angles to redirect air and reduce noise.

# Subbase Fuel Tank Features

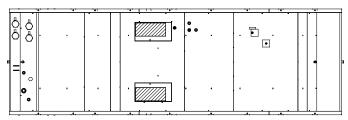
- The fuel tank has a black powder-coat finish texture.
- The above-ground rectangular secondary containment tank mounts directly to the generator set, below the generator set skid (subbase).
- Both the inner and outer tanks have UL-listed emergency relief vents.
- Flexible fuel lines are provided with 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:
  - $\,\circ\,$  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)

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