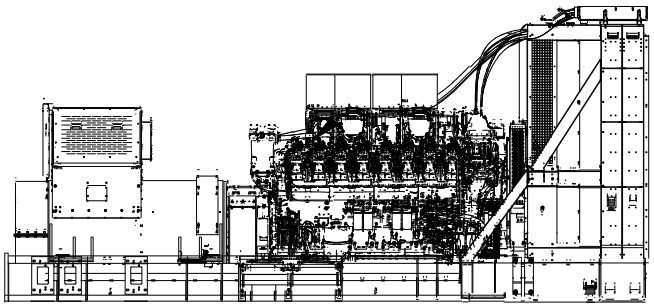
Industrial Diesel Generator Set - KD3250

Emission Optimized -Tier 2 EPA-Certified for Stationary Emergency Applications



Ratings Range

		60 Hz
Standby:	**kW**	3000-3250
	kVA	3750-4063
Prime:	**kW**	2950
	kVA	3688

Standard Features

- Rehlko 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.
- cULus listing (UL 2200 and CSA C22.2 No. 100).
- The generator set accepts rated load in one step.
- 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 for purchase in some jurisdictions.
- A standard two-year or 8700-hour limited warranty for prime power applications.
- Other features:
  - Rehlko designed controllers for one-source system integration and remote communication. See Controllers on page 4.

Conscious Care™ Qualified

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

General Specifications

Manufacturer	Rehlko
Engine: model	KD83V16A
Alternator Choices	KH07634TO4D
	KH07635TO4D
	KH08590TO4D
	KH09371TO4D
	KH10172TO4D
Performance Class	Per ISO 8528-5
One Step Load Acceptance	100%
Voltage	Wye, 480 V, 600 V, 4160 V, or 12470-13800 V
Controller	APM603, APM804
Fuel Tank Capacity, L (gal.)	—
Fuel Consumption, L/hr (gal./hr) 100% at Standby	858.1 (226.8)
Fuel Consumption, L/hr (gal./hr) 100% at Prime Power	810.0 (214.1)
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

				130°C Rise Standby Rating			105°C Rise Standby Rating			105°C Rise Prime Rating		
Alternator	**Voltage**	**Ph**	**Hz**	**kW**	**kVA**	**Amps**	**kW**	**kVA**	**Amps**	**kW**	**kVA**	**Amps**
KH07634TO4D	7200/12470	3	60	3250	4063	189	3000	3750	174	2950	3688	171
	7620/13200	3	60	3250	4063	178	3000	3750	165	2950	3688	162
	7970/13800	3	60	3250	4063	170	3000	3750	157	2950	3688	155
KH07635TO4D	7620/13200	3	60	3250	4063	178	3250	4063	178	2950	3688	162
	7970/13800	3	60	3250	4063	170	3250	4063	170	2950	3688	155
KH08590TO4D	277/480	3	60	3250	4063	4887	3250	4063	4887	2950	3688	4436
	347/600	3	60	3250	4063	3910	3250	4063	3910	2950	3688	3549
KH09371TO4D	7200/12470	3	60	3220	4025	187	3230	4038	187	2950	3688	171
KH10172TO4D	2400/4160	3	60	3250	4063	564	3250	4063	564	2950	3688	512

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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Industrial Diesel Generator Set - KD3250

Emission Optimized -Tier 2 EPA-Certified for Stationary Emergency Applications

Engine Specifications	60 Hz
Engine model	KD83V16A
Engine type	4-Cycle, Turbocharged, Intercooled
Cylinder arrangement	16-V
Displacement, L (cu. in.)	83 (5048)
Bore and stroke, mm (in.)	175 x 215 (6.89 x 8.46)
Compression ratio	16.0:1
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	3490 (4680)
Governor: type, make/model	KODEC Electronic Control
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	±0.25%
Frequency	Fixed

Lubricating System	60 Hz
Type	Full Pressure
Oil pan capacity with filter (initial fill), L (qt.) §	467 (494)
Oil filter: quantity, type §	8, Cartridge
Oil cooler	Water-Cooled

§ Rehlko recommends the use of Rehlko Genuine oil and filters.

Fuel System	60 Hz
Max. fuel flow, Lph (gph)	1229 (325)
Maximum diesel fuel lift, m (ft.)	3.5 (11.5)
Fuel filter: quantity, type	3, Primary Engine Filter 2, Fuel/Water Separator
Recommended fuel	#2 Diesel ULSD/HVO/RD

Fuel Consumption*	60 Hz	
At % load of Engine power rating (Standby)	**lph**	**(gph)**
100%	858.1	(226.8)
75%	754.5	(199.4)
50%	490.7	(129.7)
25%	270.0	(71.3)
At % load of Engine power rating (Prime)	**lph**	**(gph)**
100%	810.0	(214.1)
75%	649.6	(171.7)
50%	436.9	(115.5)
25%	249.1	(65.8)

* Assumed volumetric fuel consumption with diesel fuel having an LHV of 42.7 kJ/kg and weighing 0.85 kg/l.

Radiator System	60 Hz EPA Tier 2	60 Hz Low NOx EPA Tier 2
Ambient temperature, °C (°F) †	50 (122)	
Engine Jacket water capacity, L (gal)	317 (84)	
Engine Jacket water capacity, L (gal), HT	237 (63)	
Charge cooler water capacity, engine only, LT	80 (21)	
Radiator system capacity, including engine, L (gal)	1060 (280)	
Jacket water capacity, Total: radiator + engine, HT. L (gal)	697 (184)	
Charge cooler water capacity, Total: radiator + engine, LT L (gal)	363 (96)	
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	1070 (60850)	1135 (64550)
Engine jacket water flow, Lpm (gpm)	2550 (674)	
Heat rejected to charge cooling water at rated kW, dry exhaust, kW (Btu/min.)	1010 (57438)	1080 (61420)
Charge cooler water flow, Lpm (gpm)	820 (217)	
Fan diameter, including blades, mm (in.)	2438 (96)	
Fan, kWm (HP)	107 (143)	
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H_2O)	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_2O)	250 (83.6)

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Exhaust System	60 Hz
Heat rejected to exhaust, kW	2870
Exhaust flow at rated kW, m^3/min. (cfm)	716 (25284)
Exhaust temperature at rated kW at 25°C (77°F) ambient, dry exhaust, °C (°F)	490 (914)
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): 4 @ 9 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^3/min. (scfm)‖	50°C 4240 (149700)
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)‖	1226 (43297)
Combustion air, m^3/min. (cfm)	266 (9398)
Max. air combustion restriction, kPa (in. H_2O)	5.0 (20)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	170 (9668)
Alternator, kW (Btu/min.)	175 (9952)

‖ Air density = 1.20 kg/m^3 (0.075 lbm/ft^3)

Alternator Specifications	60 Hz
Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet Pilot Exciter
Voltage regulator	Solid-State, Volts/Hz
Insulation system	Class H, Synthetic, Non-hygroscopic
Ingress Protection rating	IP23
Bearing: quantity, type	2, Sealed
Coupling type	Coupling
Overspeed (rpm)	2250
Voltage regulation, no-load to full-load	±0.25%
Unbalanced load capability	100% of Rated Standby Current

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.

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Controllers



APM804 Controller

Provides advanced controls, system monitoring, system diagnostics and optimizes generator performance with intelligent load sharing and seamless synchronization.

- **Intuitive User Interface** – High-resolution 12-inch color display with easy-to-navigate menus for quick setup and monitoring
- **Comprehensive Protection** – Includes voltage, frequency, and engine safeguards to ensure reliable operation
- **Flexible Connectivity** – The controller supports Modbus® RTU/TCP, BACnet® & SNMP protocols. Built-in Ethernet, RS-485, analog and digital I/O for smooth integration with modern systems
- **Scalable Design** – Supports paralleling multiple gensets, paralleling with utility and complex applications, from standby to prime power
- **Remote Monitoring Ready** – Compatible with cloud-based and local monitoring solutions for real-time insights using Modbus

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BACnet® is a registered trademark of ASHRAE.



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 C22.2 No. 100)
❑ IBC Seismic Certification
❑ Canadian cUL Tank Listing

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 for purchase in some jurisdictions.
- 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

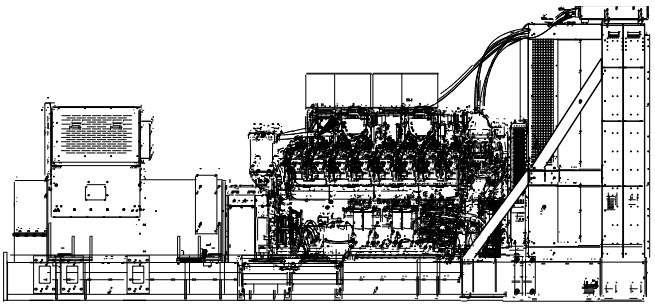
Standard Features

- Coolant in generator
- Charging alternator 24Vdc
- Closed Crankcase Ventilation (CCV) filters
- Compensators and flanges for exhaust outlets
- Delivered with initial oil fill
- Dual bearing alternator IP23, T°rise / Insulation class H/H
- Fuel/Water separator
- Generator heater
- Industrial water cooled internal combustion engine
- Local emergency stop switch
- Oil drain and coolant drain extension
- Operation and installation literature
- Packaging under plastic film
- Prelube oil pump
- Standard and heavy duty air filter
- Standard and redundant fuel/water separator
- Single and redundant starter
- Spring isolation under the skid
- Welded steel skid

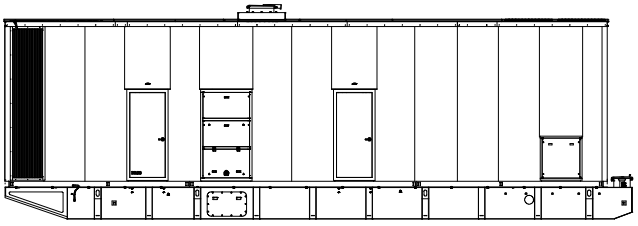
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Dimensions and Weights

Compact version without cooling	60 Hz
Overall Size, L x W x H, max., mm (in.):	7546 x 3182 x 3456 (297.0 x 125.3 x 136.1)
Weight (radiator model), wet, max., kg (lb.):	30932 (68193)
Fuel tank capacity, L (gal.)	0



Sound Level 2 Walk-In Enclosure	60 Hz
Aluminum frame enclosure with Internal silencer, acoustic-lined air inlet, vertical outlet hood with 90° angles to redirect air and reduce noise.	
Overall Size, L x W x H, max.,	16166 x 4157 x 5755
mm (in.):	(636.5 x 163.6 x 226.6)
Max. weight, kg (lb.)	55177 (121644)
Fuel tank capacity, L (gal.)	Refer to G6-190.
Sound Pressure Level at 60 Hz with full load, dB	74



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Notes

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