



KD3250

60 Hz. Diesel Generator Set

Tier 2 EPA Certified for Stationary Emergency Applications

Data Center Emphasis-Low NO_x

EMISSION OPTIMIZED DATA SHEET

ENGINE INFORMATION

Model:	KD83V16	Bore:	175 mm (6.89 in.)
Nameplate kW @ 1800 RPM:	3490	Stroke:	215 mm (8.46 in.)
Type:	4-Cycle, 16-V Cylinder	Displacement:	83 L (5048 cu. in.)
Aspiration:	Turbocharged, Intercooled	EPA Family:	MLHAL103.ESP
Compression ratio:	16:0:1	EPA Certificate:	MLHAL103.ESP-001
Emission Control Device:	Direct Diesel Injection, Engine Control Module, Turbocharger, Charge Air Cooler		

EXHAUST EMISSION DATA:

EPA D2 Cycle 5-mode weighted

HC	0.61 g/kWh
NO _x (Oxides of Nitrogen as NO ₂)	4.97 g/kWh
CO (Carbon Monoxide)	0.95 g/kWh
PM (Particulate Matter)	0.16 g/kWh

TEST METHODS AND CONDITIONS

Test Methods:

Steady-State emissions recorded per EPA CFR 40 Part 89, and ISO8178-1 during operation at rated engine speed (+/-2%) and stated constant load (+/-2%) with engine temperatures, pressures and emission rates stabilized.

Fuel Specification:

40-48 Cetane Number, 0.05 Wt. % max. Sulfur; Reference ISO8178-5, 40CFR86.1313-98 Type 2-D and ASTM D975 No. 2-D.

Reference Conditions:

25 °C (77 °F) Air Inlet Temperature, 40 °C (104 °F) Fuel Inlet Temperature, 100 kPa (29.53 in Hg) Barometric Pressure; 10.7 g/kg (75 grains H₂O/lb.) of dry air Humidity (required for NO_x correction); Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit.

Data was taken from a single engine test according to the test methods, fuel specification and reference conditions stated above and is subjected to instrumentation and engine-to-engine variability. Tests conducted with alternate test methods, instrumentation, fuel or reference conditions can yield different results.

Data and specifications subject to change without notice.