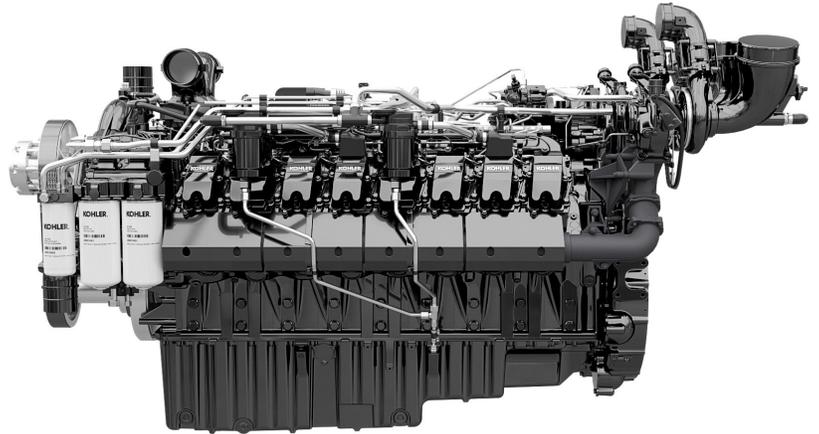


KD36V16

KOHLER® KD SERIES™ ENGINE



KOHLER G-Drive diesel engines produce industry-leading kW displacement in a package that enables a smaller generator set footprint while delivering best fuel consumption at more nodes than any competitor between 800 and 3250 kW. That means higher performance at reduced operating cost. The engine architecture, injection system and engine management of G-Drive engines have been designed to achieve optimal generator set performance while meeting all worldwide emission requirements.



FEATURES

MATCHED TURBOCHARGERS

Turbochargers have been designed for maximum power and optimal combustion using the right amount of intake air. They are specifically matched to each engine and engineered to provide the required amount of air at all times, which reduces fuel consumption and enables operation at high altitudes.

FUEL SYSTEM

The common rail fuel system generates up to 2200-bar injection pressures for maximum efficiency, optimizing the combustion pressure curve through multiple injections. An ideal injection point and extremely uniform injection quantity create exceptionally low noise and deliver very stable power. Engineers specifically designed the remarkable high-lift fuel system to work optimally for KOHLER G-Drive engines.

INTUITIVE ENGINE CONTROL UNIT (ECU)

The ECU includes a number of physical parameters for optimal control of the injection system and long-life service. It is designed to work seamlessly within the generator set and to communicate with KODIA, our intuitive diagnostic software, to allow monitoring of the engine performance.

Designed and developed specifically for this engine series, each ECU works with the generator set controller—receiving important engine operating data and allowing the generator set controller to manage the entire system.

INNOVATIVE CYLINDER HEAD DESIGN

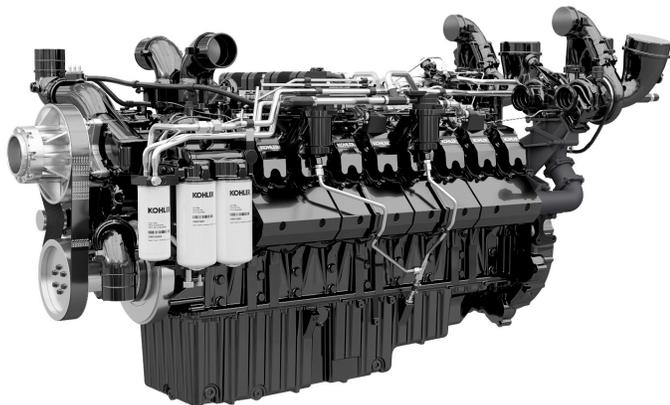
Featuring a “crossflow” design and new valve orientation, our innovative cylinder head design includes more efficient fuel delivery, minimal low-temperature fuel return, combustion and exhaust gas flow. High-quality materials were chosen for better performance and a strengthened structure.

CRANKCASE VENTILATION

Our standard closed crankcase ventilation filters to 95% efficiency removing debris from entering into the atmosphere. This closed-loop regeneration system increases filtration efficiency and results in a more environmentally friendly engine.

KOHLER
IN POWER. SINCE 1920.

KD36V16



STANDARD EQUIPMENT

Induction System

Turbocharged after-cooled; new modular turbocharged system delivers the optimal quantity of air to reach maximum power and reduce fuel consumption during operation.

Fuel System

The common rail fuel system generates up to 2200-bar injection pressures for maximum efficiency. An ideal injection point and extremely uniform injection quantity create exceptionally low noise and deliver very stable power.

Cooling System

Water-cooled; thermostat for jacket water-cooling system; water pump; radiator-supplied loose incorporating air-to-air charge cooler.

Lubrication System

Full-pressure water-cooled lubrication system; spin-on lubrication oil filters; oil temperature sensor.

Starting System

24-volt starting voltage; 140-amp battery charging alternator.

Engine Management

The engine control unit (ECU) provides optimal control of the injection system and communicates with KODIA, our intuitive diagnostic software, to allow monitoring of engine performance. The ECU also interoperates with the generator set controller for complete control of the entire system.

GENERAL DATA

Number of cylinders		16
Cylinder arrangement		90° V
Cycle		4-cycle
Bore	mm (in)	135 (5.3)
Stroke	mm (in)	157 (6.2)
Displacement	total L (cu in)	36.0 (2196.9)
Displacement, cylinder	total L (cu in)	2.25 (137.3)
Lube oil capacity	L	135
Coolant capacity	L	124
Flywheel dimensions		SAE 0

DIMENSIONS AND WEIGHT

Length	mm (in)	2831 (111.5)
Width	mm (in)	1358 (53.5)
Height	mm (in)	1581 (62.3)
Weight, dry	kg (lb)	3200 (7055)

GROSS POWER

1500 RPM (50 Hz)

Standby power	kWm/BHP	1333/1788
Prime power	kWm/BHP	1212/1625
Continuous power	kWm/BHP	1010/1354

1800 RPM (60 Hz)

Standby power	kWm/BHP	1450/1944
Prime power	kWm/BHP	1318/1767
Continuous power	kWm/BHP	1098/1472

EMISSION CERTIFICATION

1500 RPM (50 Hz)

Standby power	Exhaust emission EPA Tier 2 (not certified)
Prime power	Exhaust emission EPA Tier 2 (not certified)
Continuous power	Fuel-optimized

1800 RPM (60 Hz)

Standby power	U.S. EPA Nonroad Tier 2 stationary (40 CFR 60)
Prime power	U.S. EPA Nonroad Tier 2 stationary (40 CFR 60)
Continuous power	Fuel-optimized

RATINGS/POWER DEFINITIONS

STANDBY POWER

Applicable for supplying power to varying electrical loads for the duration of power interruption of a reliable utility source. Standby Power is in accordance with ISO 8528. Fuel stop power in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

PRIME POWER

Applicable for supplying power to varying electrical loads for unlimited hours. Prime Power is in accordance with ISO 8528. Ten % overload capability is available in accordance with ISO 3046, AS 2789, DIN 6271 and BS 5514.

CONTINUOUS POWER

Applicable for supplying power continuously to a constant electrical load for unlimited hours. Continuous Power in accordance with ISO 8528, ISO 3046, AS 2789, DIN6271 and BS 5514.