



Industrial Diesel Generator Set – K26M

50 Hz



RATINGS 230 V - 50 Hz		
Standby	kVA	26,00
	kWe	26,00
Prime	kVA	23,60
	kWe	23,60

Benefits & features

KOHLER premium quality

- Design offices using the latest technical innovations
- Modern fully certified factories
- A cutting edge laboratory
- The generating set, its components and a wide range of options have been fully developed, prototype tested, factory built, and production tested
- Approved for use with HVO (Hydrotreated Vegetable Oil) according to EN15940

KOHLER premium performances

- Optimized and certified sound levels
- Reliable power, even in extreme conditions
- Optimized fuel consumption
- Compact footprint
- Best quality of electricity, high starting and loading capacity, according to ISO8528-5
- Robust base frames and high-quality enclosures
- Protection of installations and people
- Approved in line with the most stringent standards

Engines

- Premium level engines, in-house or from strong partners
- High power density, small footprint
- Low temperature starting capability
- Long maintenance interval

Alternator

- Provide industry leading motor starting capability
- Made in Europe
- Built with a class H insulation and IP23

Cooling

- A compact and complete solution using a mechanically driven radiator fan
- Designed or optimized by KOHLER
- High temperature and altitude product capacity available

GENERAL SPECIFICATIONS

Engine brand	KOHLER KDI
Alternator commercial brand	KOHLER
Voltage (V)	230 single phase
Standard Control Panel	APM303
Optional control panel	APM403
Consumption @ 100% load ESP (L/h) *	8
Consumption @ 100% load PRP (L/h) *	8
Emission level	Fuel consumption optimization
Type of Cooling	Radiator
Performance class	G3

GENERATOR SETS RATINGS

	Voltage	PH	Hz	Standby Rating			Prime Rating	
				kWe	kVA	Amps	kWe	kVA
K26M	240 MONO	1	50	26,00	26,00	108	23,60	23,60
	230 MONO	1	50	26,00	26,00	113	23,60	23,60
	220 MONO	1	50	26,00	26,00	118	23,60	23,60

DIMENSIONS COMPACT VERSION

Length (mm)	1700
Width (mm)	896
Height (mm)	1200
Tank capacity (L)	100,00
Dry weight (kg)	604,00

DIMENSIONS SOUNDPROOFED VERSION

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit; Fuel density at 0.85 kg/L.

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Base frame and enclosure

- High quality steel with enhanced corrosion resistance
- Highly durable QUALICOAT-certified epoxy paint
- Minimum 1000 hours of resistance to salt spray in accordance with ISO12944
- Ergonomic access to allow easy maintenance and connection of the generator
- Robust design optimized for transportation

Type soundproofing

Length (mm)	2100
Width (mm)	938
Height (mm)	1285
Tank capacity (L)	100,00
Dry weight (kg)	792,00
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	76
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	63

NOT AVAILABLE

* Volumetric Fuel consumption is up to 4% higher when using HVO than Diesel Fuel

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Engine

General

Engine brand	KOHLER KDI
Engine ref.	KDI2504TM-30 *
Air inlet system	Turbo
Fuel	Diesel Fuel/HVO
Emission level	Fuel consumption optimization
Cylinder configuration	L
Number of cylinders	4
Displacement (l)	2,48
Bore (mm) * Stroke (mm)	88,00 * 102,0
Compression ratio	18.5 : 1
Speed 50Hz (RPM)	1500
Maximum stand-by power at rated RPM (kW)	31,0
Injection Type	Direct
Governor type	Mechanical
Air cleaner type, models	Dry

Fuel system

Maximum fuel pump flow (l/h)	55,0
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Consumption with cooling system

Fuel consumption @ ESP Max Power (l/h)	8,0
Fuel consumption @ PRP Max Power (l/h)	7,5
Fuel consumption @ 75% of PRP Power (l/h)	5,9
Fuel consumption @ 50% of PRP Power (l/h)	4,2

Emissions

Emission PM 50Hz (g/kW.h)	0,6000
Emission CO 50Hz (g/kW.h)	5,500

Lubrication System

Oil system capacity including filters (l)	11,50
Min. oil pressure (bar)	0,7
Oil sump capacity (l)	
Oil consumption 100% ESP 50Hz (l/h)	0,010

Air Intake system

Max. intake restriction (mm H2O)	
Combustion air flow (l/s)	

Exhaust system

	PRP	ESP
Exhaust gas flow (L/s)		103,0
Exhaust gas temperature @ ESP (°C)		455
Max. exhaust back pressure (mm H2O)		800

Cooling system

Radiator & Engine capacity (l)	9,10
Fan power 50Hz (kW)	0,90
Fan air flow w/o restriction (m3/s)	1,18
Available restriction on air flow (mm H2O)	20,00
Type of coolant	Glycol-Ethylene
Radiated heat to ambient (kW)	5,0
Heat rejection to coolant HT (kW)	24
Max coolant temperature, Shutdown (°C)	110,0
Thermostat begin of opening HT (°C)	79
Thermostat end of opening HT (°C)	94

Cooling system and charge air cooler

Radiator & Engine capacity (l)	9,10
Fan power 50Hz (kW)	0,90
Fan air flow w/o restriction (m3/s)	1,18
Available restriction on air flow (mm H2O)	20,00
Type of coolant	Glycol-Ethylene
Radiated heat to ambient (kW)	5,0
Heat rejection to coolant HT (kW)	24
Coolant capacity HT, engine only (l)	
Outlet coolant temperature (°C)	
Max coolant temperature, Shutdown (°C)	110,0

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Max. pressure at inlet of HT water pump (mbar)	
Thermostat begin of opening HT (°C)	79
Thermostat end of opening HT (°C)	94
CAC Heat Rejection (kW)	

Cooling system (HT/LT)

Radiator & Engine capacity (l)	9,10
Fan power 50Hz (kW)	0,90
Fan air flow w/o restriction (m3/s)	1,18
Available restriction on air flow (mm H2O)	20,00
Type of coolant	Glycol-Ethylene
Radiated heat to ambient (kW)	5,0
Heat rejection to coolant HT (kW)	24
Coolant capacity HT, engine only (l)	
Outlet coolant temperature (°C)	
Max coolant temperature, Shutdown (°C)	110,0
Max. pressure at inlet of HT water pump (mbar)	
Thermostat begin of opening HT (°C)	79
Thermostat end of opening HT (°C)	94
Heat rejection to coolant LT (kW)	
LT circuit flow rate (l/min)	
Coolant capacity LT, engine only (l)	

* Engine reference may be partially modified depending on genset application, options selected by the customer and lead time required.

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Alternator Specifications

Alternator commercial brand	KOHLER
Kohler Alternator description	KH00500T
Number of pole	4
Number of bearing	Single Bearing
Technology	Brushless
Indication of protection	IP23
Insulation class	H
Number of wires	12
AVR Regulation	Yes
Coupling	Direct
Capacity for maintaining short circuit at 3 In for 10 s	Yes

Alternator Standard Features

- All models are brushless, rotating-field alternators
- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting
- The AVR voltage regulator provides superior short circuit capability
- Self-ventilated and dip proof construction
- Superior voltage waveform

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

Application data

Overspeed (rpm)	2250
Power factor (Cos Phi)	1,0
Voltage regulation at established rating (+/- %)	1,00
Wave form : NEMA=TIF	<45
Wave form : CEI=FHT	<2
Total Harmonic Distortion in no-load DHT (%)	3,0
Total Harmonic Distortion, on linear load DHT (%)	1,6
Recovery time (Delta U = 20% transient) (ms)	200

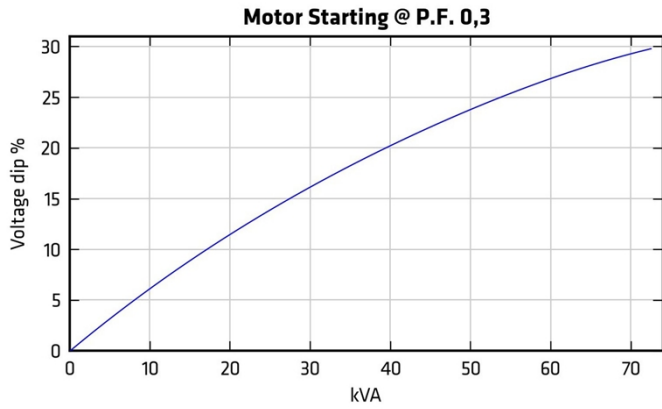
Performance datas

Continuous Nominal Rating 40°C (kVA)	27,0
Unbalanced load acceptance ratio (%)	8

Peak motor starting (kVA) based on x% voltage dip power factor at 0.3

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Dimensions compact version

Length (mm) * Width (mm) * Height (mm)	1700 * 896 * 1200
Dry weight (kg)	604,00
Tank capacity (L)	100,00

**M137 - Dimensions soundproofed version**

Length (mm) * Width (mm) * Height (mm)	2100 * 938 * 1285
Dry weight (kg)	792,00
Tank capacity (L)	100,00
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	76
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	93
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	63

**Dimensions DW compact version**

Length (mm) * Width (mm) * Height (mm)	2074 * 932 * 1401
Dry weight (kg)	812,00
Tank capacity (L)	240,00

**M137 - Dimensions DW soundproofed version**

Length (mm) * Width (mm) * Height (mm)	2100 * 938 * 1486
Dry weight (kg)	1000,00
Tank capacity (L)	240,00
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	75
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	93
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	63

**M137 - Dimensions DW 48h soundproofed version**

Reference Conditions: 25°C Air Inlet Temperature, 40°C Fuel Inlet Temperature, 100 kPa Barometric Pressure; 10.7 g/kg of dry air Humidity. Intake Restriction set to maximum allowable limit for clean filter; Exhaust Back pressure set to maximum allowable limit; Fuel density at 0.85 kg/L.

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Length (mm) * Width (mm) * Height (mm)	2100 * 938 * 1540
Dry weight (kg)	1012,00
Tank capacity (L)	470,00
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	75
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	93
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	63



* dimensions and weight without options

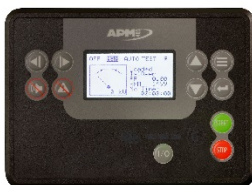
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APM303

The APM303 is a versatile unit which can be operated in manual or automatic mode. It offers the following features:

- Measurements: phase-to-neutral and phase-to-phase voltages, fuel level (In option : active power currents, effective power, power factors, Kw/h energy meter, oil pressure and coolant temperature levels)
- Supervision: Modbus RTU communication on RS485
- Reports: (In option : 2 configurable reports)
- Safety features: Overspeed, oil pressure, coolant temperatures, minimum and maximum voltage, minimum and maximum frequency (Maximum active power P<66kVA)
- Traceability: Stack of 12 stored events

For further information, please refer to the data sheet for the APM303

BASIC GENERATING SET AND POWER PLANT CONTROL**APM403**

The APM403 is a versatile control unit which allows operation in manual or automatic mode

- Measurements : voltage and current
- kW/kWh/kVA power meters
- Standard specifications: Voltmeter, Frequency meter.
- Optional : Battery ammeter.
- J1939 CAN ECU engine control
- Alarms and faults: Oil pressure, Coolant temperature, Overspeed, Start-up failure, alternator min/max, Emergency stop button.
- Engine parameters: Fuel level, hour counter, battery voltage.
- Optional (standard at 24V): Oil pressure, water temperature.
- Event log/ Management of the last 300 genset events.
- Mains and genset protection
- Clock management
- USB connections, USB Host and PC,
- Communications : RS485 INTERFACE
- ModBUS protocol /SNMP
- Optional : Ethernet, GPRS, remote control, 3G, 4G,
- Websupervisor, SMS, E-mails

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KOHLER

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STANDARD SCOPE OF SUPPLY

All our gensets are fitted with:

- Industrial water cooled DIESEL engine
- Electric starter & charge alternator
- Standard air filter
- Schneider or ABB electric circuit breaker, adapted to the short-circuit current of the generating set
- Single bearing alternator IP 23 T° rise/ insulation to class H/H
- Welded steel base frame with 85% vibration attenuation mounts
- 4 lifting points on the chassis, lifting bar on the top included from 165 kVA ESP or optional
- highly durable QUALICOAT certified epoxy paint
- frame height optimized to allow it to be moved safely by forklift
- enclosure made of new high-quality European steel with enhanced corrosion resistance
- IP 64 locks, made from stainless materials
- enclosures and base frames tested and analyzed by the French Corrosion Institut
- 100% of tanks tested for permeability
- Personal protection ensured by protective grilles on hot and rotating parts
- Separate 9 dB(A) silencer
- Fuel tank welded inside the genset frame
- Retention bund included for gensets up to 110 kVA ESP
- Charged DC starting battery with electrolyte
- Emergency stop button on the outside
- Flexible fuel lines & lub oil drain cock
- Exhaust outlet with flexible and flanges
- User's manual (1 copy)
- Packing under plastic film
- Delivered with oil and antifreeze liquid

CODES AND STANDARDS

Engine-generators set is designed and manufactured in facilities certified to standards ISO9001:2015 & ISO14001:2015. The generator sets and its components are prototype-tested, factory built and production tested and are in compliance with the relevant standards:

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- Machinery Directive 2006/42/EC of May 17th 2006
- EMC Directive 2014/30/UE
- Safety objectives set out in the Low Voltage Directive 2014/35/UE
- EN ISO 8528-13, EN 60034-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 55011, EN 1679-1 et EN 60204-1

POWER RATINGS DEFINITION according to ISO8528-1 (2018-02 edition) and ISO-3046-1

Emergency Standby Power (ESP): The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Average load factor per 24 hours of operation is <70%.

Prime Power (PRP): At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour within 12 hour of operation. Average load factor per 24 hours of operation is <70%.

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TERMS OF USE

According to the standard, the nominal power assigned by the genset is given for 25°C Air Inlet Temperature, of a barometric pressure of 100 kPa (100 m A.S.L), and 30% relative humidity. For particular conditions in your installation, refer to the derating table.

WARRANTY INFORMATIONS

Standard Warranty Period:

- for Products in "back-up" service
 - o 30 months from the date the Product leaves the plant
 - o 24 months from the Product's commissioning date
 - o 1,000 running hours

The warranty expires when one of the above conditions is met.

- for Products in "prime" or "continuous" service (continuous supply of electricity, either in the absence of any normal electricity grid or to complement the grid),
 - o 18 months from the date the Product leaves the plant
 - o 12 months from the Product's commissioning date
 - o 2,500 running hours

The warranty expires when one of the above conditions is met.

For more details regarding conditions of application and scope of the warranty please refer to our General "terms & conditions of sales".

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