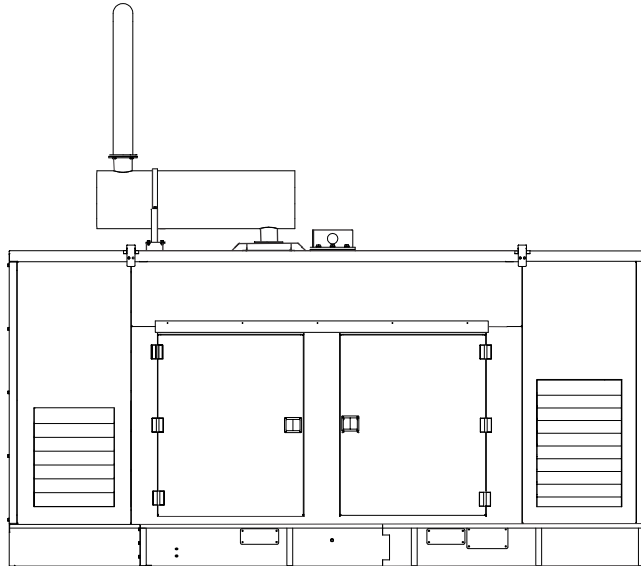


Model: KM200 II

KOHLER Power Systems

Diesel



Standard Features

- Industrial Diesel Engine with 24-volt battery charging alternator
- Single-bearing alternator with insulation class H.
- Base mounted removable fuel tank of 8hrs capacity
- Inbuilt Vibration isolators.
- Dry type air filter with restriction indicator
- Main line circuit breaker
- Fuel Water separator with indicator
- Starting battery and battery cables
- Exhaust Tail pipe and Rain Guard as standard scope of supply
- CPCB certified
- Digital controller
- Operations and installation literature
- Single Point Top Lifting
- Conveniently locate fuel level indication.

Kohler Advantage

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype- tested, factory-built, and production-tested.
- Two-year limited warranty covers all systems and components.
- Compact Design
- Fast Response time
- Easy of maintenance

Generator Set Ratings

Genset	Engine	Alternator	Voltage	PH	Hz	Prime Rating		Amps
						kW	kVA	
KM200 II	6.12 TCE	G1R250LD	415	3	50	160	200	278

PRIME POWER RATINGS: Prime power ratings apply to installations where utility power is unavailable or unreliable. 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, overload power in accordance with ISO-3046/1 and BS 5514. For limited running time and base load ratings, consult the factory. Obtain the technical information bulletin (TIB-101) on ratings guidelines for the complete ratings definitions.

Alternator Specifications

- Alternator meets EN 60034-1, IEC 60034-1, BS EN 60034-1, ISO 8528-3, IS 13364-PT. 1 & 2 and approved for CE marking
- Self-ventilated and dripproof of IP23 construction.
- Superior voltage waveform form a 2/3 pitch wound stator
- Sustained short circuit current of upto 300% of the rated current for upto 20 sec.

Specifications	Alternator
Type	4 Pole
Exciter type	Brushless
Voltage regulator	DSR
Insulation	
-Material	Class H
-Temperature rise, Prime	125
Bearing: Quantity, Type	1, Sealed
Coupling	Flexible Disk
Excitation	Self Excitation
Short Circuit ratio	0.427
Voltage regulation	+/-1%
Full Load current	
3 Ph	278
Prime at 125 ° C, kVA	200
Frequency, Fixed, Hz	50

Application Data

Engine

Engine Specifications

Engine model	6.12 TCE
Engine type	TCIC
Cylinder arrangement	6, inline
Displacement, L (cu. in.)	7.2 (439.37)
Bore and stroke, mm (in.)	105 X 137 (4.13X5.39)
Compression ratio	16.9:1
Rated rpm	1500
Max. power at rated rpm, kWm (BHP)	180 (241.2)
Governor: type	Electronic
Governing : Class	Class A2
Frequency regulation, steady state	ISO 8528 G2
Air cleaner type, Qty	Dry, 1
Unit-mounted radiator	45 C°
Fuel Consumption	Diesel, Lph
100%	40.8
75%	33.3
Lube oil consumption : 100% load (% of FC)	0.1

Exhaust

Exhaust System

Exhaust Manifold type Dry	Dry
Exhaust temperature at rated kW, dry exhaust, °C (°F)	610 (1130)
Maximum allowable back pressure, kPa (in.Hg)	11 (3.25)
Exhaust outlet size at engine hookup, mm (in)	88.9 (3.5)
Silencer Type, Quantity	Residential, 1

Engine Electrical

Engine Electrical System

Starter Motor rated voltage, VDC	24 V
Battery charging alternator	24 V, 55 Amp
Ground (negative/positive)	Negative
Volts, VDC	24
Battery Type-	Flooded Type
	Maintenance Free
Amps, Ah	150
Qty	2
Battery voltage, VDC	24

Fuel

Fuel System

Fuel prime pump	Electronic
Fuel filter : Type, Qty	Spin-on, 2
Recommended fuel	HSD-ASTM D2
Fuel tank capacity, L	395
Filter change period	500 hrs/ 6 months whichever is earlier

Application Data

Cooling

Radiator System

Ambient temperature, °C (°F)	50 (122)
Radiator system capacity, including engine, L (gal)	25 (6.60)
Water pump type	Impeller
Fan diameter, including blades, mm (in.)	762 (30)

Lubrication

Lubricating System

Type	Forced Lubrication
Lube oil Type	Kohler Power Premium Oil
Oil pan capacity with filter, L	20.2
Oil filter: quantity, Type	1, spin on cartridge type with paper element
Oil Change period	500 hours / 6 months whichever is earlier

Controller

Advance Digital Control (ADC 3000)

Compact Controller

LCD display:

- Runtime hours
- Current
- Voltage
- Frequency
- Engine Temperature (Digital I/P)
- Engine oil pressure (Digital I/P)
- Battery V
- Kilowatt
- Fuel level



LCD display faults:

- High engine temperature
- Low oil pressure
- Overspeed
- Over & under voltage
- Over & under frequency
- E-stop
- Auxiliary fault
- Low fuel level
- Over load current

Display warning:

- Low battery voltage
- High battery voltage
- Low fuel level
- Maintenance Alarm

Accessories

- Battery charger 24 V
- Mains sensing relay
- Earth leaking protection
- VAF meter (Multifunction)
- Energy meter

Standard Features and Accessories

Standard Features

- Master switch: Run/Off-Reset/Auto
- Event Log
- Remote two-wire start/stop capability
- Superior electronics
- Factory-built and production-tested
- One-source responsibility for the generating system and accessories
- Automatic start with programmed cranking Cycle
- Field software upgrade possibility

Environmental Specifications

- Operating temperature: -20° C to 70° C (4° F to 158° F)
- Storage temperature: -60° C to 70° C (-76° F to 158° F)
- Humidity: 0-95% condensing

Power Requirements

- 12 or 24 VDC with fuse protection
- 250 mA @ 12 VDC
- 125 mA @ 24 VDC

Control Panel

- Alternator to Control Panel connection with Copper Cable only
- MCCB/MCB Rating: 3 Ph - 350 Amp
- Output Cable Size : 1 run/ph : 240 Sq. mm (Copper)
: 300 Sq. mm (Aluminum)

Application Data

Air Requirement

Radiator-cooled cooling air, CFM	13200
Combustion air, kg/hr	800
Heat rejected to ambient air : Generator, kW (Btu/min)	18.3 (1040.70)

Other Details

Anti vibration Location	Above to Base
-------------------------	---------------

Optional Features

- Microprocessor based AMF Control Panel
- GPRS base Generator monitoring System

Exhaust Emissions

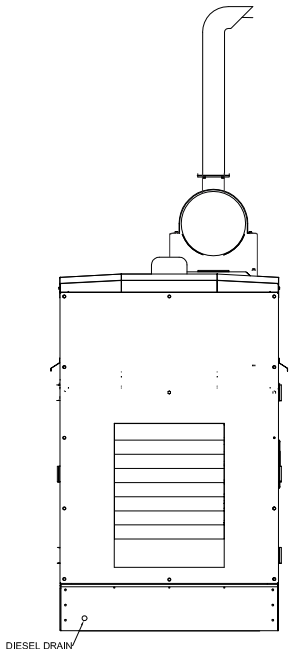
Per ISO 8178-5 mode cycle	CPCB II norms
Noise Level Measured at 1 m per CPCB guidelines	CPCB norms

Dimension and weight

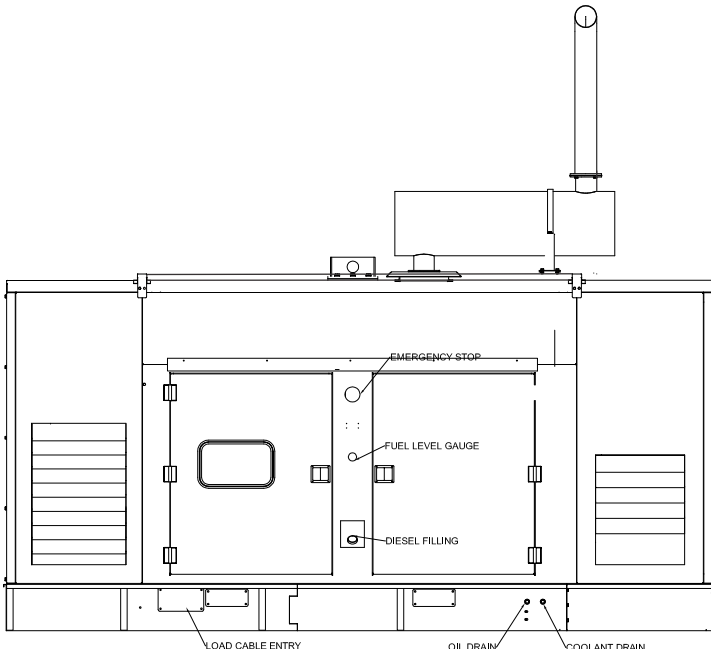
Overall Size, L X W X H, mm	4490 x 1390 x 2270
Dry, max, kg	3119

Standard Warranty

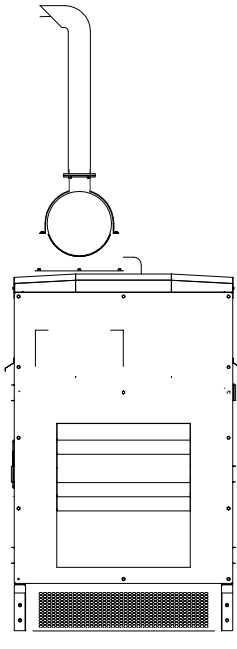
- Two (2) year or 5000 hours (whichever occurs first) from date of initial startup



ALTERNATOR END VIEW



ELEVATION RIGHT HAND SIDE



ENGINE END VIEW

NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

DISTRIBUTED BY:

© 2013 by Kohler Co. All rights reserved.

All data are as per manufacturer's specification

The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

Corporate Office :
Kohler India Corporation Pvt Ltd
Office No 701 & 702, 7th Floor
"Pentagon" Tower P 5,
Magarpatta City, Hadapsar,
Pune - 411013, Maharashtra, India
Ph No : +91 020 66497101

Registered Off ice :
Kohler India Corporation Pvt Ltd
#138/6, 6th A Cross
Raj Mahal Vilas Extension, Sadashivnagar
Bangalore 560080, India
Phone +91 80 2361 6208 / 6831 / 0231
Fax +91 80 2361 5972 E-mail: info@kohlerindia.com