

KOHLER®
IN POWER. SINCE 1920.

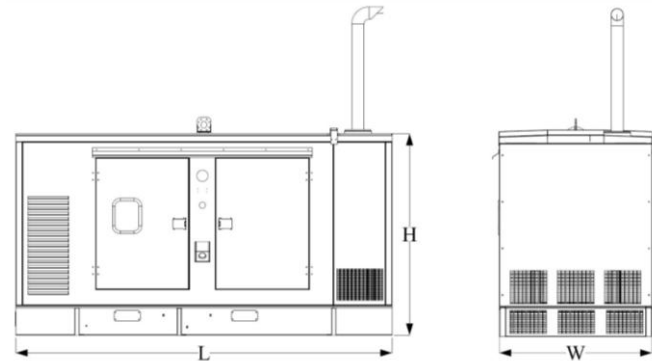
Product specification

KM100 II – Industrial & Stationary Applications

Genset Nomenclature

- **Genset Nomenclature: KM100 II:** Kohler 100 kVA CPCB II Genset with Mahindra engine.
 - K: Kohler
 - M: Mahindra (Mahindra engine)
 - 100: kVA Rating
 - II: CPCB II Certified
- Genset rating: 100 kVA Prime Power, i.e. 80 kW_e at 0.8 PF Inductive load, Full Load Current: 139 Amp

KM100 II



Dimension (L X W X H) :- 3200 x 1300 x 1755 mm

Dry Weight:- 1701KG

- **Emission:-** Engine Certified as per CPCB II emission norms
- **Noise:-** Genset meets CPCB requirement of 75 dBA at 1 meter distance at 75 % load



Engine & Alternator Specification

Engine Specification	
Engine model	Mahindra 4.12 TCA
Stroke	4
Type	TCIC
Cylinder arrangement	4, Inline
Displacement, Lits	4.8
Bore and stroke, mm	105 X 137
Compression ratio	16.9:1
Rated rpm	1500
Max.power at rated rpm, BHP	126.0
Governor: type, make/model	Mechanical
Frequency regulation, no-load to full load	Class A2
Frequency regulation, steady state	ISO 8528 G2
Air cleaner type, all models	Dry, 1
Battery charging alternator	12 Volts
Starter motor rated voltage (DC)	12 Volts
Lube Oil pan capacity L (qt.)	13.5

Alternator Specification	
Make	Meccalte
Model	ECP34-2S/4
Regulation Type	DSR
Type	4 Pole
Exciter type	Brushless
Insulation	
- Material	Class H
- Temperature rise	125°C, Prime
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disk
Voltage regulation,	+/- 1%
Rating Voltage	415
Prime rating at 125°C, kVA	100

Engine Nomenclature:-

4.12 TCA

4 : No of Cylinders

1.2 : Displacement per cylinder

TC : Turbo charged

A : After Cooler

Total engine capacity : 4.8 ltrs i.e. 4 x 1.2= **4.8 litres.**

Controller

Using KOHLER make ADC controller in this range

ADC: Advanced Digital Controller

Controller Model Used :

kVA Rating	Phase	STD / AMF	Controller Model
100	3	STD	ADC 2300
100	3	AMF	ADC 2302

All Genset Safety Parameters are monitored by Genset controller. i.e.

- V,A & Hz for 3 phase
- Emergency Stop
- Engine Start/Stop
- Water Temperature & Oil Pressure digitally displayed
- Over crank Protection
- Remote Start compatible
- Low Battery warning etc.

Enclosure Features

Single point lifting hook

Advance Digital controller for genset start – stop & easy monitoring of all genset parameters

Special LED digital fuel indicator, easy to see fuel level even at night time

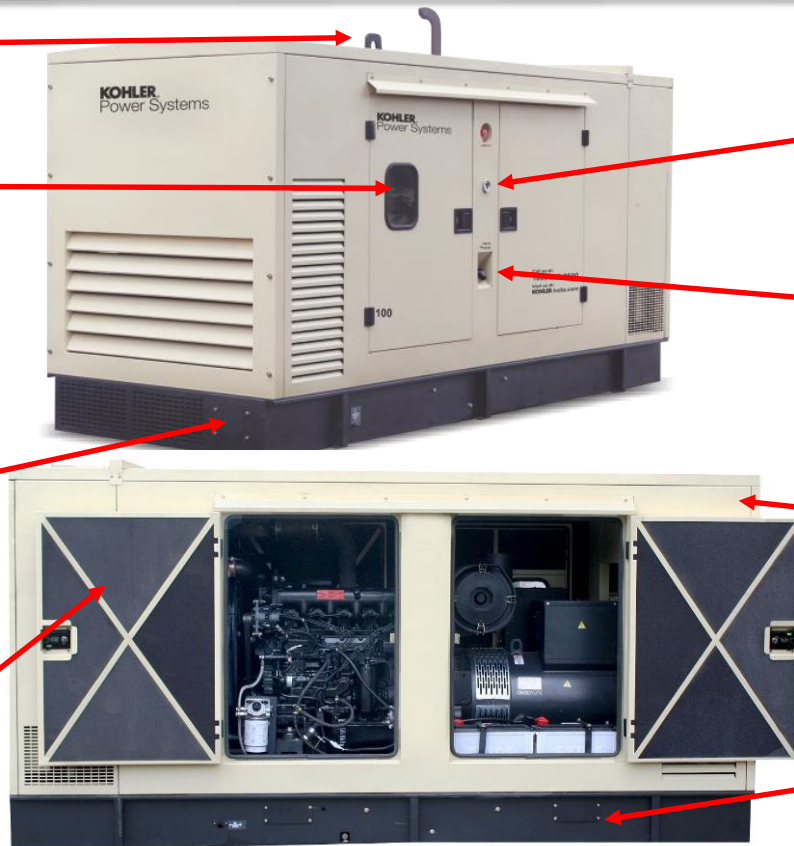
Fuel filling from outside with lock & key arrangement*

Simple cable entry arrangement

Four door arrangement ensures easy access to all service points

weather and sound resistant enclosure

Standard fork pocket arrangement



Kohler advantage – 100 kVA

- Ease of Service
 - ✓ 100% serviceable parts on same side of the set
 - ✓ Easy accessibility and less fatigue to operator
 - ✓ Single window for Sales, Service & spares support
- Advanced Digital Controller
- Best in class Block loading capacity (70%)
 - ✓ Better stability of voltage and current
- Best in class canopy weight (1701 kg)
 - ✓ Ease of handling
 - ✓ No compromise on structural rigidity
- Best in class oil consumption (0.011 L/hr)
- Special LED digital fuel level indicator
- Silencer inside canopy – unique for Kohler

Thank you!