

KOHLER®
IN POWER. SINCE 1920.

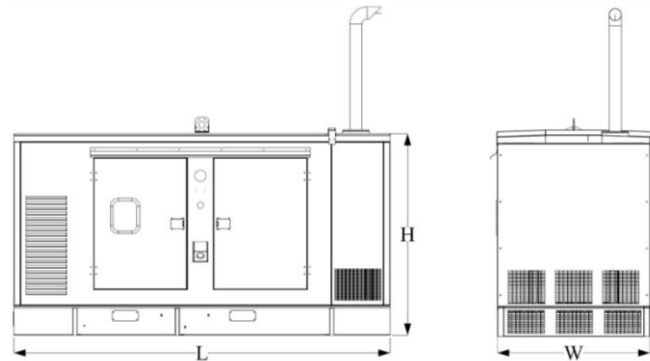
Product specification

KM83 II – Industrial & Stationary Applications

Genset Nomenclature

- **Genset Nomenclature: KM83 II:** Kohler 82.5 kVA CPCB II Genset with Mahindra engine.
 - K: Kohler
 - M: Mahindra (Mahindra engine)
 - 82.5: kVA Rating
 - II: CPCB II Certified
- Genset rating: 82.5 kVA Prime Power, i.e. 66 kWe at 0.8 PF Inductive load, Full Load Current: 115 Amp.

KM83 II



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

Dry Weight:- 1608KG

- **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	101
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	ECP34-1S/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	82.5

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. $4 \times 1.2 = 4.8$ litres.

Controller

Using KOHLER make ADC controller in this range

ADC: Advanced Digital Controller

Controller Model Used :

kVA Rating	Phase	STD / AMF	Controller Model
82.5	3	STD	ADC 2300
82.5	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

Simple cable entry arrangement

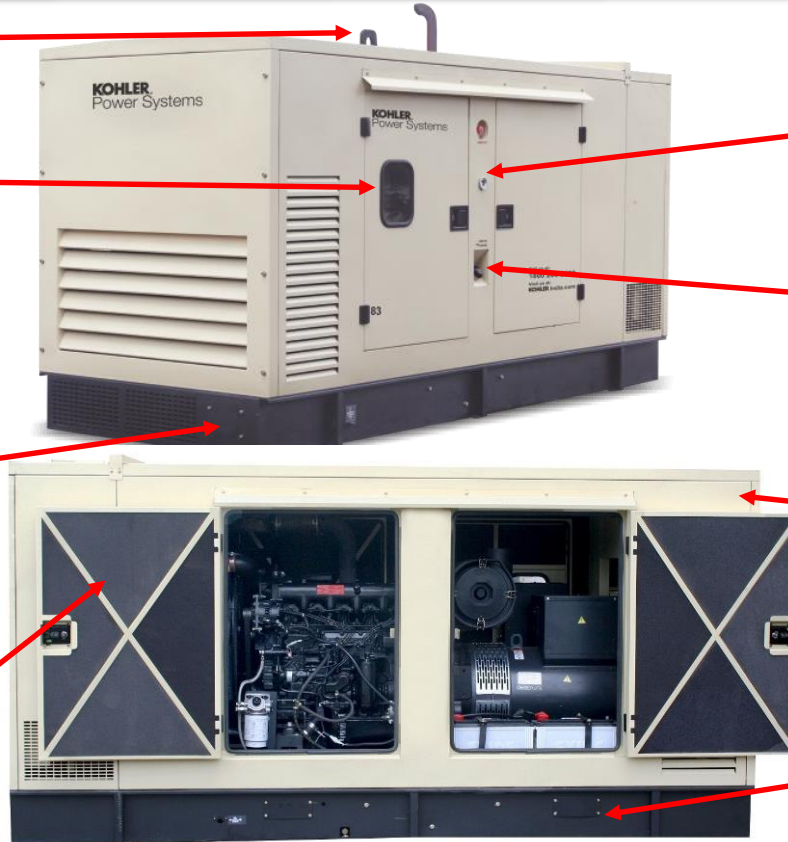
Four door arrangement ensures easy access to all service points

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

Fuel filling from outside with lock & key arrangement*

weather and sound resistant enclosure

Standard fork pocket arrangement



Kohler advantage – 82.5 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 (1608 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!