

KOHLER®
IN POWER. SINCE 1920.

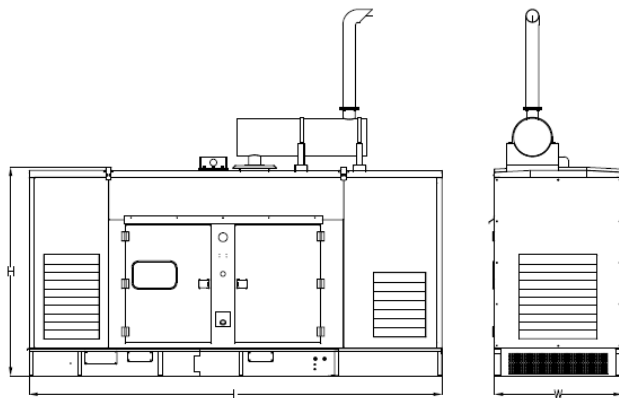
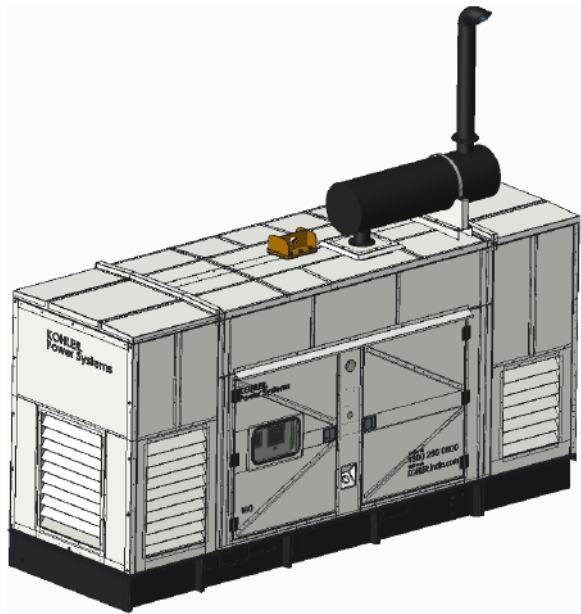
Product specification

KM180 II – Industrial & Stationary Applications

Genset Nomenclature

- **Genset Nomenclature: KM180 II:** Kohler 180 kVA CPCB II Genset with Mahindra engine.
 - K: Kohler
 - M: Mahindra
 - 180: kVA Rating
 - II: CPCB II Certified
- **Genset rating:** 180 kVA Prime Power, i.e. 144 kWe at 0.8 PF Inductive load, Full Load Current: 250 Amp.

KM180 II



Dimension (L X W X H) :- 4490x1390 x2270 mm

Dry Weight:- 3075KG

- **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 6.12 TCE
Stroke	4
Type	TCIC
Cylinder arrangement	6, Inline
Displacement, Ltrs	7.2
Bore and stroke, mm	105 X 137
Compression ratio	16.9:1
Rated rpm	1500
Max.power at rated rpm, BHP	221
Governor: type, make/model	Electronic
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)	24 Volts
Oil pan capacity with filter, L (qt.)	20.2
Radiator Capacity, L	25

Alternator Specification	
Make	CGL
Model	G1R250LB
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 at 125°C, kVA	180

Engine Nomenclature:-

6.12 TCE

6 : No of Cylinders

1.2 : Displacement per cylinder

TC : Turbo charged

E : Electronic

Total engine capacity : 7.2 ltrs i.e. 6 x 1.2= **7.2 litres.**

Controller

Using KOHLER make ADC controller in this range

ADC : Advanced Digital Controller

Controller Model Used :

kVA Rating	Phase	STD / AMF	Controller Model
180	3	STD/AMF	ADC 3003

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

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

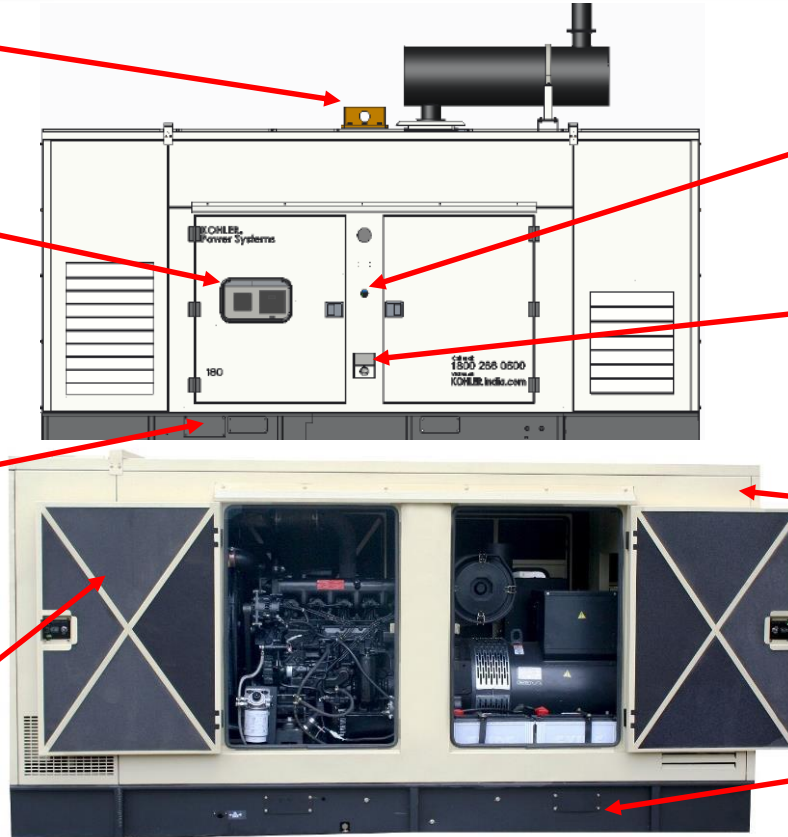
Fuel filling from outside with lock & key arrangement*

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 – 180 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
- Special LED digital fuel level indicator
- Best in class Block loading capacity (70%)
 - ✓ Better stability of voltage and current
- Best in class oil consumption (0.015 L/hr)

Thank you!