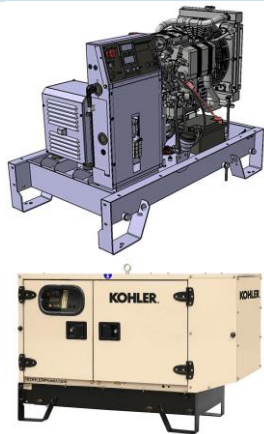


KOHLER®



DESCRIPTIVE

- 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.
- A one-year limited warranty covers all systems and components
- 12 V charge alternator and starter
- Single-bearing alternator with insulation class H.
- Radiator for core temperature of 48/50°C max with mechanical fan
- Skid and vibration isolators.
- Dry type air filter.
- Main line circuit breaker.
- Microprocessor controller.
- 9 dB(A) silencer supplied separately
- Operation and installation literature.

POWER DEFINITION

PRP : Prime Power is available for an unlimited number of annual operating hours in variable load applications, in accordance with ISO 8528-1. ESP : The standby power rating is applicable for supplying emergency power in variable load applications in accordance with ISO 8528-1. Overload is not allowed.

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.

ASSOCIATED UNCERTAINTY

For the generating sets used indoor, where the acoustic pressure levels depends on the installation conditions, it is not possible to specify the ambient noise level in the exploitation and maintenance instructions . You will also find in our exploitation and maintenance instructions a warning concerning the air noise dangers and the need to implement appropriated preventive measures.

KK6M

Engine ref.	KDW1003
Alternator ref.	KH00260T
Performance class	G2

GENERAL CHARACTERISTICS

Frequency (Hz)	50 Hz
Voltage (V)	230 single phase
Standard Control Panel	APM303
Optional control panel	DEC 4000

POWER

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
240 MONO	6.3	6.3	5.7	5.7	26
230 MONO	6.4	6.4	5.8	5.8	28
220 MONO	6.3	6.3	5.7	5.7	29

DIMENSIONS COMPACT VERSION

Length (mm)	1220
Width (mm)	700
Height (mm)	920
Dry weight (kg)	290
Tank capacity (L)	50

DIMENSIONS SOUNDPROOFED VERSION

Type soundproofing	M125
Length (mm)	1482
Width (mm)	760
Height (mm)	1030
Dry weight (kg)	390
Tank capacity (L)	50
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	67
Sound power level guaranteed (Lwa) 50Hz (75% PRP)	83
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	54

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East Coast Generators Pty Ltd

83 - 89 Westgate Drive,
Altona North, VIC 3025

Phone: 03 9369 8800

E-mail: sales@eastcoastgenerators.com.au
Web: www.eastcoastgenerators.com.au
ABN 14 202 273 633, ACN 006 517 362

GENERAL ENGINE DATA

Engine brand	KOHLER KDI
Engine ref.	KDW1003
Air inlet system	Athmo
Cylinders configuration	L
Number of cylinders	3
Displacement (L)	1.03
Charge Air coolant	
Bore (mm) x Stroke (mm)	75 x 77.6
Compression ratio	22,8 : 1
Speed (RPM)	1500
Pistons speed (m/s)	3.88
Maximum stand-by power at rated RPM (kW)	8.5
Frequency regulation, steady state (%) +/-	2.5%
BMEP @ PRP 50 Hz (bar)	6
Governor type	Mechanical

COOLING SYSTEM

Radiator & Engine capacity (L)	4.5
Fan power (kW)	0.25
Fan air flow w/o restriction (m3/s)	0.85
Available restriction on air flow (mm H2O)	
Type of coolant	Glycol-Ethylene

EMISSIONS

Emission PM (g/kW.h)	
Emission CO (g/kW.h)	
Emission HC+NOx (g/kWh)	0
Emission HC (g/kW.h)	

EXHAUST

Exhaust gas temperature @ ESP 50Hz (°C)	440
Exhaust gas flow @ ESP 50Hz (L/s)	30.7
Max. exhaust back pressure (mm H2O)	750

FUEL

Consumption @ 100% load ESP (L/h)	2.7
Consumption @ 100% PRP load (L/h)	2.5
Consumption @ 75% PRP load (L/h)	1.9
Consumption @ 50% PRP load (L/h)	1.3
Maximum fuel pump flow (L/h)	50

OIL

Oil system capacity including filters (L)	2.4
Min. oil pressure (bar)	1.4
Max. oil pressure (bar)	7
Oil consumption 100% ESP 50Hz (L/h)	0.04
Oil sump capacity (L)	2.3

HEAT BALANCE

Heat rejection to exhaust (kW)	9
Radiated heat to ambient (kW)	1
Heat rejection to coolant HT (kW)	9

AIR INTAKE

Max. intake restriction (mm H2O)	200
Intake air flow (L/s)	12.8

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GENERAL DATA

Alternator ref.	KH00260T
Number of Phase	Single phase
Power factor (Cos Phi)	1
Altitude (m)	0 à 1000
Overspeed (rpm)	2250
Number of pole	4
Capacity for maintaining short circuit at 3 In for 10 s	Yes
Insulation class	H
T° class (H/125°), continuous 40°C	H / 125°K
T° class (H/163°C), standby 27°C	H / 163°K
AVR Regulation	Yes
Total Harmonic Distortion in no-load DHT (%)	27
Total Harmonic Distortion, on linear load DHT (%)	28
Wave form : NEMA=TIF	<45
Wave form : CEI=FHT	<2
Number of bearing	Single Bearing
Coupling	Direct
Voltage regulation at established rating (+/- %)	1
Recovery time (Delta U = 20% transient) (ms)	200
Indication of protection	IP 23
Technology	Brushless

OTHER DATA

Continuous Nominal Rating 40°C (kVA)	5.8
Standby Rating 27°C (kVA)	6.4
Efficiencies 100% of load (%)	77.4
Air flow (m3/s)	0.058
Short circuit ratio (Kcc)	0.87
Direct axis synchro reactance unsaturated (Xd) (%)	135.4
Quadra axis synchro reactance unsaturated (Xq) (%)	44.7
Open circuit time constant (T'do) (ms)	730
Direct axis transient reactance saturated (X'd) (%)	20.8
Short circuit transient time constant (T'd) (ms)	17
Direct axis subtransient reactance saturated (X''d) (%)	15
Subtransient time constant (T''d) (ms)	11
Quadra axis subtransient reactance saturated (X''q) (%)	81.3
Subtransient time constant (T''q) (ms)	8
Zero sequence reactance unsaturated (Xo) (%)	4.33
Negative sequence reactance saturated (X2) (%)	20.6
Armature time constant (Ta) (ms)	12
No load excitation current (io) (A)	0.29
Full load excitation current (ic) (A)	1.2
Full load excitation voltage (uc) (V)	18.2
Engine start (Delta U = 20% perm. or 30% trans.) (kVA)	20.3
Transient dip (4/4 load) - PF : 0,8 AR (%)	12.5
No load losses (W)	285
Heat rejection (W)	1694
Unbalanced load acceptance ratio (%)	100

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KOHLER®

KK6M

DIMENSIONS

Dimensions soundproofed version

Type soundproofing	M125
Length (mm)	1482
Width (mm)	760
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APM303, comprehensive and simple



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.

DEC4000, ergonomic and user-friendly



The highly versatile DEC4000 control unit is complex yet accessible, thanks to the particular attention paid to optimising its ergonomics and ease of use. With its large display screen, buttons and scroll wheel, it places the accent on simplicity and communication.

It offers the following functions:

Electrical measurements: voltmeter, frequency meter, ammeter.

Engine parameters: working hours counter, oil pressure, coolant temperature, fuel level, engine speed, battery voltage.

Alarms and faults: oil pressure, coolant temperature, failure to start, overspeed, alternator min./max., battery voltage min./max., emergency stop, fuel level.

Ergonomics: wheel for navigating around the various menus.

Communication: remote control and operation software, USB connections, PC connection.

Automatic control: automatic start.

For more information on the product and its options, please refer to the sales documentation.

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