



RATINGS 400V - 50 Hz		
Standby	kVA	2000
	KWe	1600
Prime	kVA	1818
	KWe	1454

### Benefits & features

#### KOHLER premium quality

- KOHLER SDMO provides **one source responsibility** for the generating set and accessories
- The generator set, its components and a wide range of options have been **fully developed, prototype tested, factory built**, and production-tested
- The generator sets are designed in accordance to ISO8528-5 performance **class G3** and accepts rated load in one step

#### KOHLER premium performances

##### Engines

- Low fuel consumption thanks to a high technology common rail injection engine
- A smaller footprint thanks to a high power density
- Low temperature starting capability
- Long maintenance interval

##### Alternator

- Provide industry leading motor starting capability
- Excitation system to permit sustained overcurrent > 300% In, during 10 sec
- Built with a class H insulation and IP23

##### Cooling

- A flexible solution using an electrical driven radiator fan
- High temperature and altitude product capacity available

##### Control Panel

The KOHLER wide controller range provide the reliability and performances you expect from your equipment. You can program, manage and diagnose it easily and in an efficient way

#### KOHLER worldwide support

- A standard three-year or 1000-hour limited warranty for standby applications.
- A standard two-year or 8700-hour limited warranty for prime power applications.
- A worldwide product support

#### GENERAL SPECIFICATIONS

Engine brand	KOHLER KD Series	
Alternator commercial brand	KOHLER	
Voltage (V)	400/230	
Performance class	G3	
Standard Control Panel	APM403	
<b>Genset Fuel consumption</b>	<b>PRP</b>	<b>ESP</b>
Consumption @ 100% PRP load (L/h)	358.3	384
Engine optimisation	F	
Type of Cooling	Air-cooler	

#### GENERATOR SETS RATINGS

				Standby Rating			Prime Rating	
KD2000-F	Voltage	PH	Hz	kWe	kVA	Amps	kWe	kVA
	415/240	3	50	1596	1995	2776	1451	1814
	400/230	3	50	1600	2000	2887	1454	1818
	380/220	3	50	1586	1982	3011	1442	1802

*Data Center Continuous (DCP) Power rating is the same as the prime rating when a reliable grid is available*

RATINGS: All three-phase units are rated at 0.8 power factor.

Distributed By:



East Coast Generators Pty Ltd

83 - 89 Westgate Drive,  
Altona North, VIC 3025

Phone: 03 93698800

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

#### KOHLER DIESEL ENGINE

##### General

Engine brand	KOHLER KD Series
Engine ref.	KD62V12-5AFS
Distribution	4T
Air inlet system	Turbo
Fuel	GO
Engine optimisation	F
Cylinders configuration	V
Number of cylinders	12
Displacement (L)	62.06
Bore (mm) * Stroke (mm)	175 * 215
Compression ratio	16 : 1
Speed (RPM)	1500
Maximum stand-by power at rated RPM (kW)	1718
Cylinder Head Material	Cast Iron
Crankshaft Material	Steel
Intake and Exhaust Valve Material	Steel
Piston type & material	Steel
Charge Air coolant	Air/Water DC
Frequency regulation, steady state (%)	+/- 0.25%
Injection Type	Direct
Governor type	Electronic
ECU type	KODEC
Air cleaner type, models	Dry

##### Fuel system

Maximum fuel pump flow (L/h)	400
Fuel Inlet Minimum recommended size (mm)	25.4
Max. restriction at fuel pump (m)	3.5
Max head on fuel return line (m)	11.8
Maximum allowed inlet fuel temperature (°C)	70

##### Consumption with fan (L/h)

	PRP	ESP
Consumption @ 100% PRP load (L/h)	358.3	384
Consumption @ 75% PRP load (L/h)	274.2	297.1
Consumption @ 50% PRP load (L/h)	194.8	210.2
Consumption @ 25% load PRP (L/h)	113.5	120.8

##### Lubrication System

Oil system capacity including filters (L)	375
Min. oil pressure (bar)	3.5
Max. oil pressure (bar)	
Oil sump capacity (L)	308
Oil cooler	Plate Exchanger
Oil consumption 100% ESP 50Hz (L/h)	0.81

##### Air Intake system

Max. intake restriction (mm H2O)	510
Intake air flow (L/s)	2093.3

##### Exhaust system

Heat rejection to exhaust (kW)	1220
Exhaust gas temperature (°C)	PRP 465   ESP 440
Exhaust gas flow (L/s)	4994   5255
Max. exhaust back pressure (mm H2O)	867

##### Optional cooling system (HT/LT)

Radiated heat to ambient (kW)	90
Heat rejection to coolant HT (kW)	580
Flow on the HT circuit at 0.7Bars pressure drop off engine (L/min)	1631
Outlet coolant temperature (°C)	100
Maximum Coolant temp without derating (°C)	100
Max coolant temperature, Shutdown (°C)	105
Coolant capacity HT, engine only (L)	254
Restriction pressure drop off engine – HT circuit (mbar)	700
Minimal pressure before HT pump (mbar)	400
Max. pressure at inlet of HT water pump (mbar)	2500
Thermostat begin of opening HT (°C)	71
Thermostat end of opening HT (°C)	81
HT Standard pressure cap setting (kPa)	100
Heat rejection to coolant LT (kW)	390
Flow on the LT circuit at 0.7Bars pressure drop off engine (L/min)	450
Temperature of inlet to LT engine water circuit (°C)	25
Coolant capacity LT, engine only (L)	102
Restriction pressure drop off engine – LT circuit (mbar)	700
Minimal pressure before LT pump (mbar)	400
Max. pressure at inlet of LT water pump (mbar)	2500
LT Standard pressure cap setting (kPa)	100

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#### Alternator Specifications

Alternator commercial brand	KOHLER
Alternator ref.	KH04404T
Number of pole	4
Number of bearing	Single Bearing
Technology	Brushless
Indication of protection	IP23
Insulation class	H
Number of wires	6
Capacity for maintaining short circuit at 3 In for 10 s	Yes
AVR Regulation	Yes
Coupling	Direct

#### Application data

Overspeed (rpm)	2250
Power factor (Cos Phi)	0.8
Voltage regulation at established rating (+/- %)	0.50
Wave form : NEMA=TIF	<50
Wave form : CEI=FHT	<2
Total Harmonic Distortion in no-load DHT (%)	<3.5
Total Harmonic Distortion, on linear load DHT (%)	<3.5
Recovery time (Delta U = 20% transient) (ms)	500

#### Performance datas

Continuous Nominal Rating 40°C (kVA)	1860
Unbalanced load acceptance ratio (%)	8
Peak motor starting (kVA) based on x% voltage dip power factor at 0.3	

#### Alternator Standard Features

- All models are brushless, rotating-field alternators
- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting
- The AVR voltage regulator provides superior short circuit capability
- Self-ventilated and dip proof construction
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds
- Superior voltage waveform

*Note: See Alternator Data Sheets for alternator application data and ratings, efficiency curves, voltage dip with motor starting curves, and short circuit decrement curves.*

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**Dimensions compact version**

Length (mm) * Width (mm) * Height (mm)	4741* 2100 * 2561
Dry weight (kg)	14938
Tank capacity (L)	0

**Contener dimensions CPU40 soundproofed version****CPU40 Si**

Length (mm) * Width (mm) * Height (mm)	12192* 2438 * 2896
Dry weight (kg)	29020
Tank capacity (L)	500
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	86
Measured acoustic power level (Lwa) 50Hz (75% PRP)	109
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	78

**Contener dimensions CPU40 super soundproofed version****CPU40 SSi**

Length (mm) * Width (mm) * Height (mm)	12192* 2438 * 2896
Dry weight (kg)	29570
Tank capacity (L)	500
Acoustic pressure level @1m in dB(A) 50Hz (75% PRP)	80
Measured acoustic power level (Lwa) 50Hz (75% PRP)	103
Acoustic pressure level @7m in dB(A) 50Hz (75% PRP)	72

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### M80-D



The M80-D can be used as a basic terminal block for connecting an electrical cabinet box and as an instrument panel with a highly intuitive LCD screen giving an overview of your generating set's basic parameters:

- Oil gauge
- coolant temperature
- oil temperature
- engine speed
- battery voltage
- charge air temperature
- fuel consumption
- etc.

The engine main functions can be controlled and events are recorded to facilitate diagnostics:

- starting
- speed adjustment
- stopping
- droop
- etc.

### DEC4000



#### ERGONOMIC AND USER FRIENDLY

Large display screen,  
buttons and scroll wheel,

Electrical measurements: voltmeter, frequency meter, ampmeter, voltage.

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

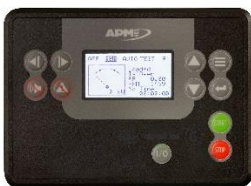
Alarms and faults: oil pressure, coolant temperature, failure to start, overspeed, alternator min/max., battery voltage min. /max., emergency stop, fuel level.

Ergonomics: wheel for navigating around the various menus.

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

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

### APM403



#### BASIC GENERATING SET AND POWER PLANT CONTROL

The APM403 is a versatile control unit which allows operation in manual or automatic mode

- Measurements : voltage and current
- kW/kWh/kVA power meters
- Standard specifications: Voltmeter, Frequency meter.
- Optional : Battery ammeter.
- J1939 CAN ECU engine control
- Alarms and faults: Oil pressure, Coolant temperature, Overspeed, Start-up failure, alternator min/max, Emergency stop button.
- Engine parameters: Fuel level, hour counter, battery voltage.
- Optional (standard at 24V): Oil pressure, water temperature.
- Event log/ Management of the last 300 genset events.
- Mains and genset protection
- Clock management
- USB connections, USB Host and PC,
- Communications : RS485 INTERFACE
- ModBUS protocol /SNMP
- Optional : Ethernet, GPRS, remote control, 3G, 4G,
- Websupervisor, SMS, E-mails

RATINGS: All three-phase units are rated at 0.8 power factor.

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**ECG**  
EAST COAST GENERATORS  
HIRE - SALES - SERVICE

East Coast Generators Pty Ltd

83 - 89 Westgate Drive,  
Altona North, VIC 3025

Phone: 03 9369 8800

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### APM802



#### ADVANCED POWER PLANT MANAGEMENT CONTROL

Dedicated to power plant management APM802 provides advanced control, system monitoring, and system diagnostics for optimum performance and compatibility

- Graphic display with touchscreen
- User language selectable
- Specially researched ergonomics
- High level of equipment availability
- USB and Ethernet ports
- Modbus protocol
- Making it easy to extend the installation
- Complies with the international standard IEC 61131-3

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## STANDARD SCOPE OF SUPPLY

All our KD Series gensets are fitted with:

- Industrial water cooled DIESEL engine
- Electric starter & charge alternator 24 V D.C
- Electronic governor
- Standard air filter
- Single bearing alternator IP 23 T° rise/ insulation to class H/H
- Welded steel base frame with 85% vibration attenuation mounts
- M80 control panel
- Flexible fuel lines & lub oil drain pump
- Fuel water separator filter
- Exhaust outlet with flexible and flanges
- User's manual (1 copy)
- Packing under plastic film
- Delivered with oil

## CODES AND STANDARDS

Engine-generators set is designed and manufactured in facilities certified to standards ISO9001:2015 & ISO14001:2015. The generator sets and its components are prototype-tested, factory built and production tested and are in compliance with the relevant standards:

- Machinery Directive 2006/42/EC of May 17th 2006
- EMC Directive 2014/30/UE
- Safety objectives set out in the Low Voltage Directive 2014/35/UE
- EN ISO 8528-13, EN 60034-1, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 55011, EN 1679-1 et EN 60204-1

## TERMS OF USE

According to the standard, the nominal power assigned by the genset is given for 25°C Air Intlet 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.

## WARRANTY INFORMATION

Standard Warranty Period:

- for Products in "back-up" service
  - o 30 months from the date the Product leaves the plant, **extended to 42 months for KD series**
  - o 24 months from the Product's commissioning date, **extended to 36 months for KD series**
  - o 1,000 running hours

The warranty expires when one of the above conditions is met.

- for Products in "continuous" service (continuous supply of electricity, either in the absence of any normal electricity grid or to complement the grid),
  - o 18 months from the date the Product leaves the plant, **extended to 30 months for KD series**
  - o 12 months from the Product's commissioning date, **extended to 24 months for KD series**
  - o 2,500 running hours, **extended to 8700 running hours for KD series**

The warranty expires when one of the above conditions is met.

For more details regarding conditions of application and scope of the warranty please refer to our General "terms & conditions of sales".

**Standby Ratings:** The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Average load factor is <85%. **Prime Power Ratings:** At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Average load factor is <75%. Ratings are in accordance with ISO-8528-1 and ISO-3046-1. For limited running time, continuous or other ratings, consult your contact and obtain technical information for ratings guidelines, complete ratings definitions, and site condition derates. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever

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