



RATINGS 400 V - 50 Hz			
Standby	kVA	2800	
	KWe	2240	
Prime	kVA	2545	
	KWe	2036	

Benefits & features

KOHLER SDMO premium quality

- KOHLER SDMO provides one source responsibility for the generating system 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
- Smooth running thanks to engine conception and integral vibration isolation mounts between components and skid

KOHLER SDMO 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, running without power derating

Control Panel

The KOHLER SDMO 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 SDMO 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
Alternator commercial brand	KOHLER
Voltage (V)	400/230
Standard Control Panel	M80 TELYS APM802
Genset Fuel consumption (L/h)	
Consumption @ 100% load (L/h)	0
Consumption @ 110% load (L/h)	551,96
Type of Cooling	Radiator
GENERATOR SETS RATINGS	

				Standby Rating			Prime Rating		
	Voltage	PH	Hz	kWe	kVA	Amps	kWe	kVA	
KD2800-F	415/240	3	50	2200	2750	2750	2000	2500	
KD2600-F	400/230	3	50	2240	2800	2800	2036	2545	
	380/220	3	50	2128	2660	2660	1934	2418	

PRELIMINARY



KOHLER DIESEL ENGINE	
General	
Engine brand	KOHLER
Engine ref.	KD62V12-5DFS
Air inlet system	Turbo
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)	2406
Cylinder Head Material	Cast Iron
Crankshaft Material	Steel
Intake and Exhaust Valve Material	Steel
Piston type & material	Steel
Charge Air coolant	Air/Water DC
Injection Type	Direct
Governor type	Electronic
ECU type	KODEC
Air cleaner type, models	Dry
Fuel system	
Maximum fuel pump flow (L/h)	560
Max. restriction at fuel pump (m)	0,30
Max head on fuel return line (m)	0,20
Maximum allowed inlet fuel temperature (°C)	70
Consumption with fan (g/kWhr)	
Specific consumption ESP (g/kW.h)	195
Specific consumption 100% PRP (g/kW.h)	193
Specific consumption 75% PRP (g/kW.h)	196
Specific consumption 50% PRP (g/kW.h)	207
Specific consumption 25% PRP (g/kW.h)	236

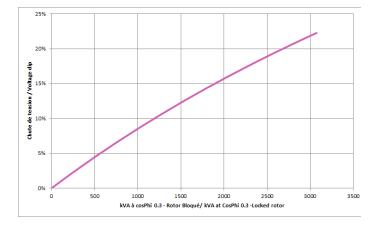
Oil capacity (L)	335	
Min. oil pressure (bar)	3,50	
Max. oil pressure (bar)		
Oil sump capacity (L)		
Oil cooler	Plate I	Exchanger
Oil consumption 100% ESP (L/h)	27,5980	
Air Intake system		
Max. intake restriction (mm H2O)		500
Intake air flow (L/s)	25	78,53
Exhaust system	PRP	ESP
Heat rejection to exhaust (kW)	1	1650
Exhaust gas temperature (°C)		470
Exhaust gas flow (L/s)		6862
Max. exhaust back pressure (mm H2O)	850	
Radiator Charge Air Cooling System		
Ambiant temperature design (°C)		40
Heat rejection to coolant LT (kW)	700	
Radiator & Engine capacity (L)	0	
Coolant capacity HT, engine only (L)	254	
Flow on the HT circuit (m3/s)	0,02	
Maximum Coolant temp without derating (°C)	100	
Outlet coolant temperature (°C)		100
Type of coolant	Glycol	-Ethylene
Compressor Discharge Temp at 25°C (°C)		
Thermostat begin of opening HT (°C)		86
Thermostat end of opening HT (°C)		96



Alternator Specifications	
Alternator commercial brand	KOHLER
Alternator ref.	KH06930T
Number of pole	4
Number of bearing	1
Technology	Without collar or brush
Indication of protection	IP23
Insulation class	Н
Winding type	06
Capacity for maintaining short circuit at 3 In for 10 s	Yes
AVR Regulation	1
Coupling	Direct
Application data	
Overspeed (rpm)	2250
Power factor (Cos Phi)	0,80
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 load DHT (%)	<3.5
Recovery time (Delta U = 20% transcient) (ms)	500
Performance datas	
Continuous Nominal Rating 40°C (kVA)	2560
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
- Solid state, volts per hertz regulator with +/- 0,25% voltage regulation no load to full load regulation

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



Dimensions compact version

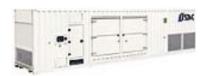
Length (mm) * Width (mm) * Height (mm)	4482* 2110 * 2561
Dry weight (kg)	15994



Contener dimensions CPU40 soundproofed version

	CPU40 Si		
Length (mm) * Width (mm) * Height (mm)		12192* 2438 * 2896	
	Dry weight (kg)	30100	
	Tank capacity (L)	500	
	Acoustic pressure level @1m in dB(A)	90	
	Measured acoustic power level (Lwa)	113	
	Acoustic pressure level @7m in dB(A)	82	
,	* Sounds lovel in dP/A) are given at 7E9/ Prime Power		

^{*} Sounds level in dB(A) are given at 75% Prime Power



Contener dimensions CPU40 super soundproofed version

CPU40 SSi		
Length (mm) * Width (mm) * Height (mm)	12192* 2438 * 2896	_
Dry weight (kg)	30650	
Tank capacity (L)	500	
Acoustic pressure level @1m in dB(A)	83	
Measured acoustic power level (Lwa)	106	
Acoustic pressure level @7m in dB(A)	75	

^{*} Sounds level in dB(A) are given at 75% Prime Power



^{*} Sounds level in dB(A) are given at 75% Prime Power



Industrial Diesel Generator Set - KD2800-F

50 Hz - Fuel Consumption Optimized

M80



The M80 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.

TELYS

Talys

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.

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

PRELIMINARY



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 Directive2014/30/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

WARRANTY INFORMATIONS

Standard Warranty Period:

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

The warranty expires when the first of the above dates is reached.

- 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
 - 2,500 running hours, extended to 8700 running hours for KD series

The warranty expires when the first of the above dates is reached.

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

PRELIMINARY