

DESCRIPTIVE

- Mechanic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for core temperature of 48/50°C max with mechanical fan
- Protective grille for fan and rotating parts (CE option)
- 9 dB(A) silencer supplied separately
- Charger DC starting battery with electrolyte
- 12 V charge alternator and starter
- Delivered with oil and coolant -30°C
- Manual for use and installation

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.

K26M

Engine ref.	KDI2504TM-30
Alternator ref.	KH00500T
Performance class	G3

GENERAL CHARACTERISTICS

Frequency (Hz)	50 Hz
Voltage (V)	230 single phase
Standard Control Panel	APM303
Optional control panel	APM403

POWER

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
240 MONO	26	26	23,6	23,6	108
230 MONO	26	26	23,6	23,6	113
220 MONO	26	26	23,6	23,6	118

DIMENSIONS COMPACT VERSION

Length (mm)	1700
Width (mm)	896
Height (mm)	1200
Dry weight (kg)	621
Tank capacity (L)	100

DIMENSIONS SOUNDPROOFED VERSION

Type soundproofing	M137
Length (mm)	2100
Width (mm)	938
Height (mm)	1285
Dry weight (kg)	809
Tank capacity (L)	100
Acoustic pressure level @1m in dB(A)	76
Sound power level guaranteed (Lwa)	90
Acoustic pressure level @7m in dB(A)	63



K26M

ENGINE CHARACTERISTICS

GENERAL ENGINE DATA

Engine brand	KOHLER DIESEL
Engine ref.	KDI2504TM-30
Air inlet system	Turbo
Cylinders configuration	L
Number of cylinders	4
Displacement (L)	2,48
Charge Air coolant	
Bore (mm) x Stroke (mm)	88 x 102
Compression ratio	18.5 : 1
Speed (RPM)	1500
Pistons speed (m/s)	5,10
Maximum stand-by power at rated RPM (kW)	32
Frequency regulation, steady state (%)	
BMEP @ PRP 50 Hz (bar)	9,40
Governor type	Mechanical

COOLING SYSTEM

Radiator & Engine capacity (L)	9,10
Fan power (kW)	0,90
Fan air flow w/o restriction (m ³ /s)	1,18
Available restriction on air flow (mm H ₂ O)	
Type of coolant	Glycol-Ethylene

EMISSIONS

Emission PM (g/kW.h)	
Emission CO (g/kW.h)	
Emission HC+NO _x (g/kWh)	0
Emission HC (g/kW.h)	

EXHAUST

Exhaust gas temperature @ ESP 50Hz (°C)	455
Exhaust gas flow @ ESP 50Hz (L/s)	103
Max. exhaust back pressure (mm H ₂ O)	800

FUEL

Consumption @ 100% load ESP (L/h)	8,30
Consumption @ 100% PRP load (L/h)	7,50
Consumption @ 75% PRP load (L/h)	5,70
Consumption @ 50% PRP load (L/h)	4
Maximum fuel pump flow (L/h)	55

OIL

Oil system capacity including filters (L)	11,50
Min. oil pressure (bar)	0,70
Max. oil pressure (bar)	
Oil consumption 100% ESP (L/h)	0,16
Oil sump capacity (L)	

HEAT BALANCE

Heat rejection to exhaust (kW)	
Radiated heat to ambient (kW)	5
Heat rejection to coolant HT (kW)	24

AIR INTAKE

Max. intake restriction (mm H ₂ O)	
Intake air flow (L/s)	

GENERAL DATA

Alternator ref.	KH00500T
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
Total Harmonic Distortion in no-load DHT (%)	3,0
AVR Regulation	Yes
Total Harmonic Distortion, on linear load DHT (%)	1,6
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)	27
Standby Rating 27°C (kVA)	30
Efficiencies 100% of load (%)	83,30
Air flow (m3/s)	0,20
Short circuit ratio (Kcc)	0,55
Direct axis synchro reactance unsaturated (Xd) (%)	211,70
Quadra axis synchro reactance unsaturated (Xq) (%)	68,90
Open circuit time constant (T'do) (ms)	1280
Direct axis transient reactance saturated (X'd) (%)	16,80
Short circuit transient time constant (T'd) (ms)	58
Direct axis subtransient reactance saturated (X''d) (%)	12,60
Subtransient time constant (T''d) (ms)	14
Quadra axis subtransient reactance saturated (X''q) (%)	36,10
Subtransient time constant (T''q) (ms)	13
Zero sequence reactance unsaturated (Xo) (%)	1,90
Negative sequence reactance saturated (X2) (%)	27
Armature time constant (Ta) (ms)	30
No load excitation current (io) (A)	0,83
Full load excitation current (ic) (A)	3,30
Full load excitation voltage (uc) (V)	35,20
Engine start (Delta U = 20% perm. or 30% trans.) (kVA)	87,70
Transient dip (4/4 load) - PF : 0,8 AR (%)	12,60
No load losses (W)	935
Heat rejection (W)	5413
Unbalanced load acceptance ratio (%)	100

DIMENSIONS

Dimensions soundproofed version

Type soundproofing	M137
Length (mm)	2100
Width (mm)	938
Height (mm)	1285
Dry weight (kg)	809
Tank capacity (L)	100
Acoustic pressure level @1m in dB(A)	76
Sound power level guaranteed (Lwa)	90
Acoustic pressure level @7m in dB(A)	63

Dimensions DW compact version

Type soundproofing		2074
Length (mm)		932
Width (mm)		1401
Height (mm)		830
Dry weight (kg)		240
Tank capacity (L)		
Acoustic pressure level @1m in dB(A)		
Sound power level guaranteed (Lwa)		
Acoustic pressure level @7m in dB(A)		

Dimensions DW soundproofed version

Type soundproofing	M137-DW
Length (mm)	2100
Width (mm)	932
Height (mm)	1486
Dry weight (kg)	1018
Tank capacity (L)	240
Acoustic pressure level @1m in dB(A)	75

Dimensions DW 48h soundproofed version

Type soundproofing	M137-DW48
Length (mm)	2100
Width (mm)	932
Height (mm)	1539
%PdnetE_5%	1025
Tank capacity (L)	470
Acoustic pressure level @1m in dB(A)	75

Sound power level guaranteed (Lwa)
Acoustic pressure level @7m in dB(A)

90
63

Sound power level guaranteed (Lwa)
Acoustic pressure level @7m in dB(A)

90
63

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

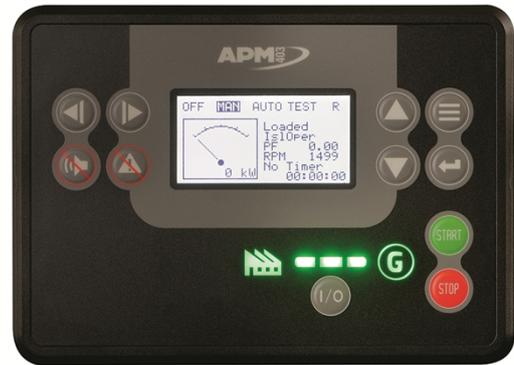
Reports:
 (In option : 2 configurable reports)

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.

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

