





DESCRIPTIVE

- Mechanic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring temperature of 48/50°C max with
- 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

K17M

Engine ref. KDI1903M
Alternator ref. AT00630T
Performance class G2

GENERAL CHARACTERISTICS

Frequency (Hz) 50
Voltage (V) 230 single phase
Standard Control Panel APM303

Optional control panel TELYS

POWER					
Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	Starioby Amps
240 MONO 230	17.2	17.2	15.6	15.6	72
MONO	17.2	17.2	15.6	15.6	75
220 MONO	17.2	17.2	15.6	15.6	78

DIMENSIONS COMPACT VERSION	
Length (mm)	1410
Width (mm)	720
Height (mm)	1080
Dry weight (kg)	530
Tank capacity (L)	50

DIMENSIONS SOUNDPROOFED VERSION				
Commercial reference of the enclosure	M126			
Length (mm)	1750			
Width (mm)	775			
Height (mm)	1230			
Dry weight (kg)	700			
Tank capacity (L)	50			
Acoustic pressure level @1m in dB(A)	71			
Sound power level guaranteed (Lwa)	87			
Acoustic pressure level @7m in dB(A)	58			

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 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.

ASSOCIATED UNCERTAINLY

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.



K17M

ENGINE CHARACTERISTICS

GENERAL ENGINE DATA	
Engine model	KOHLER DIESE
Engine ref.	KDI1903M
Air inlet	Athmo
Cylinders arrangement	L
Number of cylinders	3
Displacement (C.I.)	1.86
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)	19
Frequency regulation (%)	+/- 2.5%
BMEP (bar)	7.52
Governor type	Mechanical

COOLING SYSTEM	
Radiator & Engine capacity (L)	6.80
Max water temperature (°C)	110
Outlet water temperature (°C)	
Fan power (kW)	0.40
Fan air flow w/o restriction (m3/s) Available restriction on air flow (mm Water Column)	0.65
Type of coolant	Glycol-Ethylene
Thermostat (°C)	79-93

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Emission PM (g/kW.h)

Emission CO (g/kW.h)

Emission HCNOx (g/kWh)

Emission HC (g/kW.h)

EXHAUST	
Exhaust gas temperature (°C)	520
Exhaust gas flow (L/s)	59
Max. exhaust back pressure (mm EC)	500
FUEL	
Consumption @ 110% load (L/h)	5.50
Consumption @ 100% load (L/h)	4.80
Consumption @ 75% load (L/h)	3.50
Consumption @ 50% load (L/h)	2.40
Maximum fuel pump flow (L/h)	30
OIL	
Oil capacity (L)	8.70
Min. oil pressure (bar)	1.50
Min. oil pressure (bar) Max. oil pressure (bar)	1.50 10
Max. oil pressure (bar)	
Max. oil pressure (bar) Oil consumption 100% load (L/h)	10
Max. oil pressure (bar) Oil consumption 100% load (L/h)	10
Max. oil pressure (bar) Oil consumption 100% load (L/h) Carter oil capacity (L)	10
Max. oil pressure (bar) Oil consumption 100% load (L/h) Carter oil capacity (L) HEAT BALANCE	10 8.50
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Max. oil pressure (bar) Oil consumption 100% load (L/h) Carter oil capacity (L) HEAT BALANCE Heat rejection to exhaust (kW) Radiated heat to ambiant (kW) Haet rejection to coolant (kW)	10 8.50 13 3.50

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ALTERNATOR CHARACTERISTICS

GENERAL DATA	
Alternator ref.	AT00630T
Number of Phase	Single phase
Power factor (Cos Phi)	1
Altitude (m)	0 to 1000
Overspeed (rpm)	2250
Number of pole	4
Capacity for maintaining short circuit at 3 In for 10 s	Yes
Insulation class	Н
T° class, continuous 40°C	H / 125°K
T° class, standby 27°C	H / 163°K
AVR Regulation	Yes
Total Harmonic Distortion in no-load DHT (%)	3.3
Total Harmonic Distortion, on load DHT (%)	2.1
Wave form : NEMA=TIF	<45
Wave form : CEI=FHT	<2
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (+/- %)	+/- 1%
Recovery time (Delta U = 20%	
transcient) (ms) Indication of protection	IP 23
Technology	Without collar or brush

OTHER DATA	
Continuous Nominal Rating 40°C (kVA)	19
Standby Rating 27°C (kVA)	20.60
Efficiencies 100% of load (%)	82.60
Air flow (m3/s)	0.0880
Short circuit ratio (Kcc)	0.62
Direct axis synchro reactance unsaturated (Xd) (%)	165
Quadra axis synchro reactance unsaturated (Xq) (%)	71
Open circuit time constant (T'do) (ms)	930
Direct axis transcient reactance saturated (X'd) (%)	15.40
Short circuit transcient time constant (T'd) (ms)	46
Direct axis subtranscient reactance saturated (X"d) (%)	8.80
Subtranscient time constant (T"d) (ms)	12
Quadra axis subtranscient reactance saturated (X"q) (%)	19
Subtranscient time constant (T"q) (ms)	
Zero sequence reactance unsaturated (Xo) (%)	2.80
Negative sequence reactance saturated (X2) (%)	13.20
Armature time constant (Ta) (ms)	11
No load excitation current (io) (A)	0.60
Full load excitation current (ic) (A)	1.96
Full load excitation voltage (uc) (V)	
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	
Transcient dip (4/4 load) - PF: 0,8 AR (%)	
No load losses (W)	
Heat rejection (W)	3242
Unbalanced load acceptance ratio (%)	

DIMENSIONS

BASE AND CANOPY SPECIFICATION	S
Commercial reference of the enclosure	M126 DW
Length (mm)	1797
Width (mm)	775
Height (mm)	1391
Dry weight (kg)	850
Tank capacity (L)	93
Acoustic pressure level @1m in dB(A)	71
Sound power level guaranteed (Lwa)	87
Acoustic pressure level @7m in dB(A)	58

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CONTROL PANEL

APM303, comprehensive and simple



The APM303 is a versatile unit which can be operated in manual or automatic mode. Equipped with an LCD screen, the user-friendly APM303 offers high-quality basic functions to guarantee simple, reliable operation and supervision of your generating set. It offers the following features: Measurements:

phase-to-neutral and phase-to-phase voltages, active power currents, effective power, power factors, Kw/h energy meter Fuel, oil pressure and coolant temperature levels Supervision:

Modbus RTU communication on RS485

Reports:

2 configurable reports

Safety features:

Overspeed, oil pressure

Coolant temperatures

Minimum and maximum voltage

Minimum and maximum frequency

Maximum current

Maximum active power

Phase sequence

Traceability:

Stack of 12 stored events

For further information, please refer to the data sheet for the APM303.

TELYS, ergonomic and user-friendly



The highly versatile TELYS 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.

The TELYS 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.

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