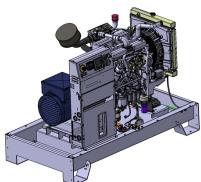
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DESCRIPTIVE

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 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 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.

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Engine ref.	KDI2504TM-30
Alternator ref.	AT00630T
Performance class	G2

50 Hz
400/230
APM303
TELYS
NA

POWER

	Voltage	ESP		PRP		Standby Amps
		kWe	kVA	kWe	kVA	Stanuby Amps
	415/240	24.80	31	22.60	28.20	43
	400/230	26.40	33	24	30	48
	380/220	26.40	33	24	30	50
	200/115	26.40	33	24	30	95
	240 TRI	26.40	33	24	30	79
	230 TRI	26.40	33	24	30	83
	220 TRI	26.40	33	24	30	87

DIMENSIONS COMPACT VERSION	
Length (mm)	1700
Width (mm)	896
Height (mm)	1255
Dry weight (kg)	629
Tank capacity (L)	100

DIMENSIONS SOUNDPROOFED VER	SION
Type soundproofing	M127
Length (mm)	2080
Width (mm)	960
Height (mm)	1415
Dry weight (kg)	883
Tank capacity (L)	100
Acoustic pressure level @1m in dB(A)	75
Sound power level guaranteed (Lwa)	93
Acoustic pressure level @7m in dB(A)	63



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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 (%)	+/- 2.5%
BMEP (bar)	9.40
Governor type	Mechanical

COOLING SYSTEM

Radiator & Engine capacity (L)

Fan power (kW)	0.90
Fan air flow w/o restriction (m3/s)	1.18
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) Emission HC (mg/Nm3) 5% O2

0

9.10

EXHAUST	
Exhaust gas temperature @ ESP 50Hz (°C)	455
Exhaust gas flow @ ESP 50 Hz (L/s)	103
Max. exhaust back pressure (mm H2O)	800
FUEL	
Consumption @ 110% load (L/h)	8.30
Consumption @ 100% load (L/h)	7.50
Consumption @ 75% load (L/h)	5.70
Consumption @ 50% load (L/h)	4
Maximum fuel pump flow (L/h)	55
OIL	
Oil capacity (L)	11.50

11.50
0.70
0

HEAT BALANCE		
Heat rejection to exhaust (kW)		
Radiated heat to ambiant (kW)	5	
Haet rejection to coolant HT (kW)	24	

AIR INTAKE

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

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OTHER DATA

ALTERNATOR CHARACTERISTICS

GENERAL DATA

Alternator ref.	AT00630T
Number of Phase	Three phase
Power factor (Cos Phi)	0.80
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	Н
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 (%)	3,3
AVR Regulation	Yes
Total Harmonic Distortion, on linear 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%	200
transcient) (ms) Indication of protection	IP 23
Technology	Without collar brush

OTHER DATA	
Continuous Nominal Rating 40°C (kVA) Standby Rating 27°C (kVA)	30 32.50
Efficiencies 100% of load (%)	88.10
Air flow (m3/s)	0.0880
Short circuit ratio (Kcc)	0.62
Direct axis synchro reactance unsaturated (Xd) (%)	169.10
Quadra axis synchro reactance unsaturated (Xq) (%)	72.80
Open circuit time constant (T'do) (ms)	930
Direct axis transcient reactance saturated (X'd) (%)	13.40
Short circuit transcient time constant (T'd) (ms)	46
Direct axis subtranscient reactance saturated (X"d) (%)	7.70
Subtranscient time constant (T"d) (ms)	12
Quadra axis subtranscient reactance saturated (X"q) (%)	16.60
Subtranscient time constant (T"q) (ms)	12
Zero sequence reactance unsaturated (Xo) (%)	2.87
Negative sequence reactance saturated (X2) (%)	11.50
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)	20.80
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	87
Transcient dip (4/4 load) - PF : 0,8 AR (%)	14.40
No load losses (W)	785
Heat rejection (W)	3242
Unbalanced load acceptance ratio (%)	100

DIMENSIONS

Dimensions DW compact version	
Type soundproofing	
Length (mm)	2160
Width (mm)	965
Height (mm)	1343
Dry weight (kg)	802
Tank capacity (L)	230
Acoustic pressure level @1m in dB(A)	
Sound power level guaranteed (Lwa)	
Acoustic pressure level @7m in dB(A)	

Acoustic pressure level @1m in dB(A)	75
Sound power level guaranteed (Lwa)	93
Acoustic pressure level @7m in dB(A)	63
Dimensions DW soundproofed version	I
Type soundproofing	M127 DW
Length (mm)	2160
Width (mm)	966
Height (mm)	1582
Dry weight (kg)	1066
Tank capacity (L)	230
Acoustic pressure level @1m in dB(A)	75

Dimensions soundproofed version

Type soundproofing

Length (mm)

Width (mm)

Height (mm)

Dry weight (kg) Tank capacity (L)

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or

M127

2080

960 1415

883

100



K33

CONTROL PANEL

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.

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.

Basic terminal block



The control unit can be used as a basic terminal block for connecting a control box.

Offers the following functions:

emergency stop button, customer connection terminal block, CE.