





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.

K33

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

GENERAL CHARACTERISTICS

Frequency (Hz) 50

Voltage (V) 400/230

Standard Control Panel APM303

Optional control panel TELYS

Optional Control Panel Basic terminal block

POWER					
Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	Starioby Amps
200/115	26	33	24	30	95
240 TRI	26	33	24	30	79
230 TRI	26	33	24	30	83
220 TRI	26	33	24	30	87
415/240	25	31	23	28	43
400/230	26	33	24	30	48
380/220	26	33	24	30	50

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

DIMENSIONS SOUNDPROOFED VERSION Commercial reference of the enclosure 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

93

63

Sound power level guaranteed (Lwa)

Acoustic pressure level @7m in dB(A)



K33

ENGINE CHARACTERISTICS

GENERAL ENGINE DATA	
Engine brand	KOHLER DIESEL
Engine ref.	KDI2504TM-30
Air inlet system	Athmo
Cylinders configuration	L
Number of cylinders	4
Displacement (L)	2,48
Charge Air coolant	
Bore (mm) x Stroke (mm)	88,00 x 102,00
Compression ratio	18.5 : 1
Speed (RPM)	1500
Pistons speed (m/s)	5,10
Maximum stand-by power at rated RPM (kW)	31,00
Frequency regulation, steady state (%)	+/- 2.5%
BMEP (bar)	9,09
Governor type	Mechanical

COOLING SYSTEM	
Radiator & Engine capacity (L)	9,10
Max water temperature (°C)	110,00
Outlet water temperature (°C)	
Fan power (kW)	
Fan air flow w/o restriction (m3/s)	1,18
Available restriction on air flow (mm H2O)	
Type of coolant	Glycol-Ethylene
Thermostat modulating range HT (°C)	79-94

EMISSIONS

Emission PM (g/kW.h)
Emission CO (g/kW.h)

Emission HC+NOx (g/kWh)

Emission HC (g/kW.h)

EXHAUST	
Exhaust gas temperature @ ESP 50Hz (°C)	455
Exhaust gas flow @ ESP 50 Hz (L/s)	103,00
Max. exhaust back pressure (mm H2O)	800
FUEL	
Consumption @ 110% load (L/h)	
Consumption @ 100% load (L/h)	7,50
Consumption @ 75% load (L/h)	5,90
Consumption @ 50% load (L/h)	4,20
Maximum fuel pump flow (L/h)	55,00
OIL	
Oil capacity (L)	11,50
Min. oil pressure (bar)	0,70
Max. oil pressure (bar)	
Oil consumption 100% load (L/h)	
Oil sump capacity (L)	

HEAT BALANCE	
Heat rejection to exhaust (kW)	
Radiated heat to ambiant (kW)	5,30
Haet rejection to coolant (kW)	24
AID INTAKE	

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



K33

ALTERNATOR CHARACTERISTICS

GENERAL DATA		OTHER DATA	
Alternator ref.	AT00630T	Continuous Nominal Rating 40°C (kVA)	30,0
Number of Phase	Three phase	Standby Rating 27°C (kVA)	32,5
Power factor (Cos Phi)	0,8	Efficiencies 100% of load (%)	88,1
Altitude (m)	0 to 1000	Air flow (m3/s)	0,088
Overspeed (rpm)	2250	Short circuit ratio (Kcc)	0,620
Number of pole	4	Direct axis synchro reactance unsaturated (Xd) (%)	169,1
Capacity for maintaining short circuit at 3 In for 10 s	Yes	Quadra axis synchro reactance unsaturated (Xq) (%	
Insulation class	Н	Open circuit time constant (T'do) (ms)	930,00
T° class (H/125°), continuous 40°C	H / 125°K	Direct axis transcient reactance saturated (X'd) (%)	13,4
T° class, standby 27°C	H / 163°K	Short circuit transcient time constant (T'd) (ms)	46,000
%regulation avr%	#regulation avr#	Direct axis subtranscient reactance saturated (X"d) (%)	7,7
Total Harmonic Distortion in no-load	3,3	Subtranscient time constant (T"d) (ms)	12,000
DHT (%) Total Harmonic Distortion, on load DHT	2,1	Quadra axis subtranscient reactance saturated (X"q) (%)	16,60
(%)	•	Subtranscient time constant (T"q) (ms)	12,0
Wave form : NEMA=TIF	<45	Zero sequence reactance unsaturated (Xo) (%)	2,870
Wave form : CEI=FHT <2		Negative sequence reactance saturated (X2) (%)	11,50
Number of bearing	1	Armature time constant (Ta) (ms)	11,000
Coupling	Direct	No load excitation current (io) (A)	0,60
Voltage regulation at established rating (+/- %)	1,00	Full load excitation current (ic) (A)	1,96
Recovery time (Delta U = 20%	200	Full load excitation voltage (uc) (V)	20,8
transcient) (ms) Indication of protection IP 23	Engine start (Delta U = 20% perm. or 50% trans.)	87,00	
Technology	•	(kVA) Transcient dip (4/4 load) - PF : 0,8 AR (%)	14,40
AVD December	brush	No load losses (W)	785,00
AVR Regulation	Yes	t Heat rejection (W)	3242,00
		Unbalanced load acceptance ratio (%)	100
		Criscianosa loda deceptanos ratio (70)	100

DIMENSIONS

BASE AND CANOPY SPECIFICA	ATIONS
Commercial reference of the enclosure	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
Sound power level guaranteed (Lwa)	93
Acoustic pressure level @7m in dB(A)	63



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, ${\sf CE}.$