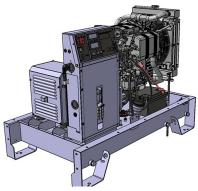
ବର TRANSDIESEL:







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.

KK6M

Engine ref. KDW1003
Alternator ref. KH00260T
Performance class G2

GENERAL CHARACTERISTICS

Frequency (Hz) 50 Hz
Voltage (V) 230
Standard Control Panel APM303
Optional control panel TELYS

POWER					
Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	Standby Amps
230	5.9	5.9	4.9	4.9	23

DIMENSIONS COMPACT VERSION

Length (mm)	1220
Width (mm)	700
Height (mm)	920
Dry weight (kg)	290
Tank capacity (L)	50

DIMENSIONS SOUNDPROOFED VERSION

Type soundproofing	M125
Length (mm)	1482
Width (mm)	760
Height (mm)	1030
Dry weight (kg)	390
Tank capacity (L)	50
Acoustic pressure level @1m in dB(A)	67
Sound power level guaranteed (Lwa)	83
Acoustic pressure level @7m in dB(A)	54





KK6M

ENGINE CHARACTERISTICS

GENERAL ENGINE DATA	
Engine brand	KOHLER DIESE
Engine ref.	KDW1003
Air inlet system	Athmo
Cylinders configuration	L
Number of cylinders	3
Displacement (L)	1.03
Charge Air coolant	
Bore (mm) x Stroke (mm)	75 x 77.60
Compression ratio	22,8 : 1
Speed (RPM)	1500
Pistons speed (m/s)	3.88
Maximum stand-by power at rated RPM (kW)	8.50
Frequency regulation, steady state (%)	+/- 2.5%
BMEP (bar)	6
Governor type	Mechanical

COOLING SYSTEM	
Radiator & Engine capacity (L)	4.50
Fan power (kW)	0.25
Fan air flow w/o restriction (m3/s) Available restriction on air flow (mm H2O)	0.85
Type of coolant	Glycol-Ethylene

Type of coolant	Glycol-Ethylene	
EMISSIONS		
Emission PM (g/kW.h)		
Emission CO (g/kW.h)		
Emission HC+NOx (g/kWh)	0	

Emission HC (mg/Nm3) 5% O2

EXHAUST	
Exhaust gas temperature @ ESP 50Hz (°C)	440
Exhaust gas flow @ ESP 50 Hz (L/s)	30.70
Max. exhaust back pressure (mm H2O)	750
FUEL	
Consumption @ 110% load (L/h)	2.70
Consumption @ 100% load (L/h)	2.50
Consumption @ 75% load (L/h)	1.90
Consumption @ 50% load (L/h)	1.30
Maximum fuel pump flow (L/h)	50
OIL	
Oil capacity (L)	2.40
Min. oil pressure (bar)	1.40
Max. oil pressure (bar)	7
Oil consumption 100% ESP (L/h)	0
Oil sump capacity (L)	2.30
HEAT BALANCE	
Heat rejection to exhaust (kW)	9
Radiated heat to ambiant (kW)	1
Haet rejection to coolant HT (kW)	8.50
AIR INTAKE	
Max. intake restriction (mm H2O)	200
Intake air flow (L/s)	12.80

ବର TRANSDIESEL:



KK6M

ALTERNATOR CHARACTERISTICS

GENERAL DATA	
Alternator ref.	KH00260T
Number of Phase	Single
Power factor (Cos Phi)	0.80
Altitude (m)	0 à 1000
Overspeed (rpm)	2250
Number of pole4	
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 (%)	2,7
AVR Regulation	Yes
Total Harmonic Distortion, on linear load DHT (%)	2,8
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)	200
Indication of protection	IP 23
Technology	Without collar or brush

OTHER DATA	
Continuous Nominal Rating 40°C (kVA)	4.9
Standby Rating 27°C (kVA)	5.9
Efficiencies 100% of load (%)	83.70
Air flow (m3/s)	0.0580
Short circuit ratio (Kcc)	0.80
Direct axis synchro reactance unsaturated (Xd) (%)	186.60
Quadra axis synchro reactance unsaturated (Xq) (%)	61.60
Open circuit time constant (T'do) (ms)	730
Direct axis transcient reactance saturated (X'd) (%)	14.30
Short circuit transcient time constant (T'd) (ms)	17
Direct axis subtranscient reactance saturated (X"d) (%)	10.30
Subtranscient time constant (T"d) (ms)	11
Quadra axis subtranscient reactance saturated (X"q) (%)	56
Subtranscient time constant (T"q) (ms)	8
Zero sequence reactance unsaturated (Xo) (%)	5.80
Negative sequence reactance saturated (X2) (%)	14.10
Armature time constant (Ta) (ms)	12
No load excitation current (io) (A)	0.29
Full load excitation current (ic) (A)	0.80
Full load excitation voltage (uc) (V)	12.60
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	26
Transcient dip (4/4 load) - PF: 0,8 AR (%)	14.17
No load losses (W)	285
Heat rejection (W)	1246
Unbalanced load acceptance ratio (%)	100

DIMENSIONS

Dimensions soundproofed version		
Type soundproofing	M125	
Length (mm)	1482	
Width (mm)	760	
Height (mm)	1030	
Dry weight (kg)	390	
Tank capacity (L)	50	
Acoustic pressure level @1m in dB(A)	67	
Sound power level guaranteed (Lwa)	83	
Acoustic pressure level @7m in dB(A)	54	

ସହ TRANSDIESEL:



KK6M

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.