ସହ TRANSDIESEL::







DESCRIPTIVE

- Electronic 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
- 24 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.

KH275

Engine ref. P126TI
Alternator ref. KH01380T
Performance class G3

GENERAL CHARACTERISTICS

Frequency (Hz)	50 Hz
Voltage (V)	400/230
Standard Control Panel	APM303
Optional control panel	APM403
Optional Control Panel	TELYS
Optional control panel	M80

Standby Amps

DIMENSIONS COMPACT VERSION	ON CONTRACTOR OF THE PROPERTY
Length (mm)	2900
Width (mm)	1300
Height (mm)	1670
Dry weight (kg)	2310
Tank capacity (L)	390

DIMENSIONS SOUNDPROOFED	VERSION
Type soundproofing	M227
Length (mm)	4004
Width (mm)	1380
Height (mm)	2145
Dry weight (kg)	3160
Tank capacity (L)	390
Acoustic pressure level @1m in dB(A)	83
Sound power level guaranteed (Lwa)	102
Acoustic pressure level @7m in dB(A)	73

ବର TRANSDIESEL:



KH275

ENGINE CHARACTERISTICS

GENERAL ENGINE DATA	
Engine brand	DOOSAN
Engine ref.	P126TI
Air inlet system	Turbo
Cylinders configuration	L
Number of cylinders	6
Displacement (L)	11,05
Charge Air coolant	Air/Air DC
Bore (mm) x Stroke (mm)	123 x 155
Compression ratio	17:1
Speed (RPM)	1500
Pistons speed (m/s)	7,75
Maximum stand-by power at rated RPM (kW)	272
Frequency regulation, steady state (%)	+/- 0.25%
BMEP @ PRP 50 Hz (bar)	17,90
Governor type	Electronic

COOLING SYSTEM	
Radiator & Engine capacity (L)	50,50
Fan power (kW)	7
Fan air flow w/o restriction (m3/s)	5
Available restriction on air flow (mm H2O)	0
Type of coolant	Glycol-Ethylene

0,14	
0,11	
8,34	
0,33	
	0,11 8,34

EXHAUST	
Exhaust gas temperature @ ESP 50Hz (°C)	560
Exhaust gas flow @ ESP 50 Hz (L/s)	715
Max. exhaust back pressure (mm H2O)	600
FUEL	
Consumption @ 100% load ESP (L/h)	66,20
Consumption @ 100% PRP load (L/h)	58,10
Consumption @ 75% PRP load (L/h)	43,60
Consumption @ 50% PRP load (L/h)	30
Maximum fuel pump flow (L/h)	270
OIL	
Oil system capacity including filters (L)	25
Min. oil pressure (bar)	0,50
Max. oil pressure (bar)	10
Oil consumption 100% ESP (L/h)	1,36
Oil sump capacity (L)	23
HEAT BALANCE	
Heat rejection to exhaust (kW)	254
Radiated heat to ambiant (kW)	35
Heat rejection to coolant HT (kW)	107
AIR INTAKE	
Max. intake restriction (mm H2O)	635
Intake air flow (L/s)	273

ବର TRANSDIESEL:



KH275

ALTERNATOR CHARACTERISTICS

GENERAL DATA		OTHER DATA	
Alternator ref.	KH01380T	Continuous Nominal Rating 40°C (kVA)	250
Number of Phase	Three phase	Standby Rating 27°C (kVA)	275
Power factor (Cos Phi)	0,80	Efficiencies 100% of load (%)	93,40
Altitude (m)	0 à 1000	Air flow (m3/s)	0,5330
Overspeed (rpm)	2250	Short circuit ratio (Kcc)	0,44
Number of pole	4	Direct axis synchro reactance unsaturated (Xd) (%)	214,20
Capacity for maintaining short circuit at 3 In for 10 s	Yes	Quadra axis synchro reactance unsaturated (Xq) (%)	121,10
Insulation class	Н	Open circuit time constant (T'do) (ms)	1300
T° class (H/125°), continuous 40°C	H / 125°K	Direct axis transcient reactance saturated (X'd) (%)	12
T° class (H/163°C), standby 27°C	H / 163°K	Short circuit transcient time constant (T'd) (ms)	85
Total Harmonic Distortion in no-load	un in no load	Direct axis subtranscient reactance saturated (X"d) (%)	6,20
DHT (%) AVR Regulation	Yes	Subtranscient time constant (T"d) (ms)	13
Total Harmonic Distortion, on linear load	2,9	Quadra axis subtranscient reactance saturated (X"q) (%)	18,90
DHT (%)	·	Subtranscient time constant (T"q) (ms)	12
Wave form : NEMA=TIF	<40	Zero sequence reactance unsaturated (Xo) (%)	2,48
Wave form : CEI=FHT	<2	Negative sequence reactance saturated (X2) (%)	13,70
Number of bearing	Single Bearing	Armature time constant (Ta) (ms)	17
Coupling	Direct	No load excitation current (io) (A)	0,71
Voltage regulation at established rating (+/- %)	1	Full load excitation current (ic) (A)	2,80
Recovery time (Delta U = 20%	200	Full load excitation voltage (uc) (V)	44
transcient) (ms) Indication of protection	IP 23	Engine start (Delta U = 20% perm. or 30% trans.) (kVA)	648,30
Technology	Brushless	Transcient dip (4/4 load) - PF: 0,8 AR (%)	13,87
		No load losses (W)	3425
		Heat rejection (W)	14133
		Unbalanced load acceptance ratio (%)	100

		DII	MENSIONS
Dimensions soundproofed version		Dimensions DW compact version	
Type soundproofing Length (mm) Width (mm) Height (mm) Dry weight (kg) Tank capacity (L) Acoustic pressure level @1m in dB(A) Sound power level guaranteed (Lwa) Acoustic pressure level @7m in dB(A)	M227 4004 1380 2145 3160 390 83 102 73	Type soundproofing Length (mm) Width (mm) Height (mm) Dry weight (kg) Tank capacity (L) Acoustic pressure level @1m in dB(A) Sound power level guaranteed (Lwa) Acoustic pressure level @7m in dB(A)	4056 1360 1885 2770 950
Dimensions DW soundproofed vers	sion	Dimensions DW 48h soundproofe	d version
Type soundproofing Length (mm) Width (mm) Height (mm) Dry weight (kg) Tank capacity (L) Acoustic pressure level @1m in dB(A)	M227 DW 4056 1380 2340 3960 950 83	Type soundproofing Length (mm) Width (mm) Height (mm) %PdnetE_5% Tank capacity (L) Acoustic pressure level @1m in dB(A)	M227 DW48 4056 1380 2618 3965 2130 83
			05/07/2018

Acoustic pressure level @7m in dB(A)

ସହ TRANSDIESEL:



KH275

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:

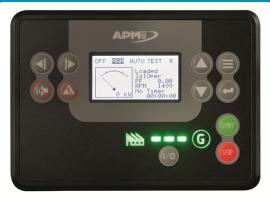
Overspeed, oil pressure, coolant temperatures, minimum and maximum voltage, minimum and maximum frequency (Maximum active power P<66kVA)

Traceability:

Stack of 12 stored events

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

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

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.

M80, transfer of information



The M80 is a dual-function control unit. It can be used as a basic terminal block for connecting a control box and as an instrument panel with a direct read facility, with displays giving a global view of your generating set's basic parameters.

Offers the following functions:

Engine parameters: tachometer, working hours counter, coolant temperature indicator, oil pressure indicator, emergency stop button, customer connection terminal block, CE.

