



DESCRIPTIVE

- Electronic governor
- Mechanically welded chassis with antivibration suspension
- Main line circuit breaker
- Radiator for wiring 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.

D330

Engine ref.	P126TI-II
Alternator ref.	AT02260T
Performance class	G3

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Voltage (V)	400/230
Standard Control Panel	APM303
Optional control panel	TELYS
Optional Control Panel	APM802

POWER

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
415/240	260	325	236	295	452
400/230	264	330	240	300	476
380/220	264	330	240	300	501

DIMENSIONS COMPACT VERSION

Length (mm)	3160
Width (mm)	1340
Height (mm)	1592
Dry weight (kg)	2570
Tank capacity (L)	470

DIMENSIONS SOUNDPROOFED VERSION

Commercial reference of the enclosure	M228
Length (mm)	4475
Width (mm)	1410
Height (mm)	2430
Dry weight (kg)	3670
Tank capacity (L)	470
Acoustic pressure level @1m in dB(A)	81
Sound power level guaranteed (Lwa)	101



D330

ENGINE CHARACTERISTICS

GENERAL ENGINE DATA

Engine model	DOOSAN
Engine ref.	P126TI-II
Air inlet	Turbo
Cylinders arrangement	L
Number of cylinders	6
Displacement (C.I.)	11.05
Air coolant	Air/Air DC
Bore (mm) x Stroke (mm)	123.00 x 155.00
Compression ratio	17 : 1
Speed (RPM)	1500
Pistons speed (m/s)	7.75
Maximum stand-by power at rated RPM (kW)	294.0
Frequency regulation (%)	+/- 0.5%
BMEP (bar)	19.11
Governor type	Electronic

COOLING SYSTEM

Radiator & Engine capacity (L)	50.50
Max water temperature (°C)	103
Outlet water temperature (°C)	
Fan power (kW)	10.00
Fan air flow w/o restriction (m ³ /s)	5.00
Available restriction on air flow (mm Water Column)	76.0
Type of coolant	Glycol-Ethylene
Thermostat (°C)	71 - 85

EMISSIONS

Emission PM (g/kW.h)	0.137
Emission CO (g/kW.h)	0.112
Emission HCNO _x (g/kWh)	
Emission HC (g/kW.h)	0.332

EXHAUST

Exhaust gas temperature (°C)	590
Exhaust gas flow (L/s)	790.00
Max. exhaust back pressure (mm EC)	600

FUEL

Consumption @ 110% load (L/h)	77.60
Consumption @ 100% load (L/h)	63.10
Consumption @ 75% load (L/h)	47.00
Consumption @ 50% load (L/h)	31.30
Maximum fuel pump flow (L/h)	270.00

OIL

Oil capacity (L)	25.00
Min. oil pressure (bar)	0.50
Max. oil pressure (bar)	10.00
Oil consumption 100% load (L/h)	0.063
Carter oil capacity (L)	23.0

HEAT BALANCE

Heat rejection to exhaust (kW)	254
Radiated heat to ambient (kW)	35.20
Heat rejection to coolant (kW)	150.6

AIR INTAKE

Max. intake restriction (mm EC)	635
Intake air flow (L/s)	335.00



D330

ALTERNATOR CHARACTERISTICS

GENERAL DATA

Alternator ref.	AT02260T
Number of Phase	Three phase
Power factor (Cos Phi)	0.8
Altitude (m)	0 to 1000
Overspeed (rpm)	2250
Number of pole	4
Capacity for maintaining short circuit at 3 In for 10 s	No
Insulation class	H
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 (%)	<2.5
Total Harmonic Distortion, on load DHT (%)	<2.5
Wave form : NEMA=TIF	<50
Wave form : CEI=FHT	<2
Number of bearing	1
Coupling	Direct
Voltage regulation at established rating (+/- %)	
Recovery time (Delta U = 20% transient) (ms)	500
Indication of protection	IP 23
Technology	Without collar or brush

OTHER DATA

Continuous Nominal Rating 40°C (kVA)	318
Standby Rating 27°C (kVA)	350.00
Efficiencies 100% of load (%)	93.7
Air flow (m3/s)	0.430
Short circuit ratio (Kcc)	0.500
Direct axis synchro reactance unsaturated (Xd) (%)	276
Quadra axis synchro reactance unsaturated (Xq) (%)	166
Open circuit time constant (T'do) (ms)	2253
Direct axis transient reactance saturated (X'd) (%)	12.2
Short circuit transient time constant (T'd) (ms)	100
Direct axis subtransient reactance saturated (X''d) (%)	7.3
Subtransient time constant (T''d) (ms)	10
Quadra axis subtransient reactance saturated (X''q) (%)	9.00
Subtransient time constant (T''q) (ms)	10.0
Zero sequence reactance unsaturated (Xo) (%)	0.50
Negative sequence reactance saturated (X2) (%)	8.20
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1.00
Full load excitation current (ic) (A)	3.40
Full load excitation voltage (uc) (V)	33
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	694
Transient dip (4/4 load) - PF : 0,8 AR (%)	12.90
No load losses (W)	4800.00
Heat rejection (W)	16880.0
	0
Unbalanced load acceptance ratio (%)	100

Containment DW

Commercial reference of the enclosure	M228 DW
Length (mm)	4527
Width (mm)	1410
Height (mm)	2700
Dry weight (kg)	4190
Tank capacity (L)	1368
Acoustic pressure level @1m in dB(A)	81
Sound power level guaranteed (Lwa)	101

DIMENSIONS

APM303, comprehensive and simple**TELYS, ergonomic and user-friendly**

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.

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.

APM802 dedicated to power plant management



The new APM802 command/control system is specifically designed for operating and monitoring power plants for markets including hospitals, data centres, banks, the oil and gas sector, industries, IPP, rental and mining. This unit is available as standard on all generating sets from 275 Kva designed for coupling. It is optional on the rest of our range.

The Human Machine Interface, designed in collaboration with a company specialising in interface design, facilitates operations with a large 100% touch screen. The pre-configured system for power plant applications features a brand new customisation function which complies with the international standard IEC 61131-3. New communication functions (PLC and regulation), improve the high level of equipment availability in the installation.

Advantages:

- Dedicated to power plant management.
- Specially researched ergonomics.
- High level of equipment availability.
- Modularity and long service life guaranteed.
- Making it easy to extend the installation

For more information, please refer to the sales documentation.