





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 UNCERTAINLY

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.

V275C2

Engine ref. TAD734GE
Alternator ref. AT01512T
Performance class G3

GENERAL CHARACTERISTICS

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

POWER					
Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	Starioby Amps
220 TRI	220	275	200	250	722
415/240	213	266	193	242	370
400/230	220	275	200	250	397
380/220	220	275	200	250	418
200/115	220	275	200	250	794
240 TRI	213	266	193	242	640
230 TRI	220	275	200	250	690

DIMENSIONS COMPACT VERSION	
Length (mm)	2900
Width (mm)	1300
Height (mm)	1590
Dry weight (kg)	2200
Tank capacity (L)	390

DIMENSIONS SOUNDPROOFED VE	ERSION	
Commercial reference of the enclosure	M227	
Length (mm)	4004	
Width (mm)	1380	
Height (mm)	2145	
Dry weight (kg)	3130	
Tank capacity (L)	390	
Acoustic pressure level @1m in dB(A)	78	
Sound power level guaranteed (Lwa)	97	
Acoustic pressure level @7m in dB(A)	67	



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ENGINE CHARACTERISTICS

GENERAL ENGINE DATA	
Engine model	VOLVO
Engine ref.	TAD734GE
Air inlet	Turbo
Cylinders arrangement	L
Number of cylinders	6
Displacement (C.I.)	7.15
Air coolant	Air/Air DC
Bore (mm) x Stroke (mm)	108 x 130
Compression ratio	17.1 : 1
Speed (RPM)	1500
Pistons speed (m/s)	6.50
Maximum stand-by power at rated RPM (kW)	250
Frequency regulation (%)	+/- 0.5%
BMEP (bar)	25.19
Governor type	Electronic

COOLING SYSTEM	
Radiator & Engine capacity (L)	
Max water temperature (°C)	109
Outlet water temperature (°C)	93
Fan power (kW)	3.80
Fan air flow w/o restriction (m3/s)	4.80
Available restriction on air flow (mm Water Column)	20
Type of coolant	Glycol-Ethylene
Thermostat (°C)	83-95

EMISSIONS	
Emission PM (g/kW.h)	0.049
Emission CO (g/kW.h)	0.350
Emission HCNOx (g/kWh)	
Emission HC (g/kW.h)	0.079

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ALTERNATOR CHARACTERISTICS

GENERAL DATA	
Alternator ref.	AT01512T
Number of Phase	Three phase
Power factor (Cos Phi)	0.80
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	Н
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% transcient) (ms)	500
Indication of protection	IP 23
Technology	Without collar or brush

OTHER DATA	
Continuous Nominal Rating 40°C (kVA)	250
Standby Rating 27°C (kVA)	275
Efficiencies 100% of load (%)	92.40
Air flow (m3/s)	0.43
Short circuit ratio (Kcc)	0.41
Direct axis synchro reactance unsaturated (Xd) (%)	327
Quadra axis synchro reactance unsaturated (Xq) (%)	196
Open circuit time constant (T'do) (ms)	2105
Direct axis transcient reactance saturated (X'd) (%)	15.50
Short circuit transcient time constant (T'd) (ms)	100
Direct axis subtranscient reactance saturated (X"d) (%)	9.30
Subtranscient time constant (T"d) (ms)	10
Quadra axis subtranscient reactance saturated (X"q) (%)	11.50
Subtranscient time constant (T"q) (ms)	10
Zero sequence reactance unsaturated (Xo) (%)	0.70
Negative sequence reactance saturated (X2) (%)	10.40
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	4
Full load excitation voltage (uc) (V)	34
Engine start (Delta U = 20% perm. or 50% trans.) (kVA)	462
Transcient dip (4/4 load) - PF: 0,8 AR (%)	15.90
No load losses (W)	3690
Heat rejection (W)	16400
Unbalanced load acceptance ratio (%)	100

DIMENSIONS

Containment DW	
Commercial reference of the enclosure	M227 DW
Length (mm)	4056
Width (mm)	1380
Height (mm)	2340
Dry weight (kg)	3850
Tank capacity (L)	950
Acoustic pressure level @1m in dB(A)	77
Sound power level guaranteed (Lwa)	97
Acoustic pressure level @7m in dB(A)	67

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CONTROL PANEL

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.

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 preconfigured 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.