





DESCRIPTIVE

- Electronic governor
- Mechanically welded chassis with antivibration
- 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.

V350C2

Engine ref. TAD1341GE
Alternator ref. AT02260T
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
voltage	kWe	kVA	kWe	kVA	Starioby Amps
220 TRI	280	350	255	318	919
220/127	264	330	240	300	866
415/240	260	325	236	295	452
400/230	280	350	255	318	505
380/220	280	350	255	318	532
200/115	264	330	240	300	953
240 TRI	264	330	240	300	794
230 TRI	280	350	255	318	879

DIMENSIONS COMPACT V	/ERSION
Length (mm)	3160
Width (mm)	1340
Height (mm)	1761
Dry weight (kg)	3110
Tank capacity (L)	470

Commercial reference of the enclosure	M228	
Length (mm)	4475	
Width (mm)	1410	
Height (mm)	2430	
Dry weight (kg)	4042	
Tank capacity (L)	470	
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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ENGINE CHARACTERISTICS

GENERAL ENGINE DATA	
Engine model	VOLVO
Engine ref.	TAD1341GE
Air inlet	Turbo
Cylinders arrangement	L
Number of cylinders	6
Displacement (C.I.)	12.78
Air coolant	Air/Air DC
Bore (mm) x Stroke (mm)	131 x 158
Compression ratio	18.1 : 1
Speed (RPM)	1500
Pistons speed (m/s)	7.90
Maximum stand-by power at rated RPM (kW)	308
Frequency regulation (%)	+/- 0.5%
BMEP (bar)	17.59
Governor type	Electronic

COOLING SYSTEM	
Radiator & Engine capacity (L)	44
Max water temperature (°C)	107
Outlet water temperature (°C)	92
Fan power (kW)	10
Fan air flow w/o restriction (m3/s)	7.50
Available restriction on air flow (mm Water Column)	20
Type of coolant	Glycol-Ethylene
Thermostat (°C)	82-92

EMISSIONS	
Emission PM (g/kW.h)	0,083
Emission CO (g/kW.h)	0,56
Emission HCNOx (g/kWh)	
Emission HC (g/kW.h)	0,22

EXHAUST	
Exhaust gas temperature (°C)	414
Exhaust gas flow (L/s)	866
Max. exhaust back pressure (mm EC)	1000
FUEL	
Consumption @ 110% load (L/h)	69
Consumption @ 100% load (L/h)	62
Consumption @ 75% load (L/h)	48
Consumption @ 50% load (L/h)	33
Maximum fuel pump flow (L/h)	120
OIL	
Oil capacity (L)	36
Min. oil pressure (bar)	
Max. oil pressure (bar)	
Oil consumption 100% load (L/h)	0.04
Carter oil capacity (L)	30
HEAT BALANCE	
Heat rejection to exhaust (kW)	203
Radiated heat to ambiant (kW)	10
Haet rejection to coolant (kW)	133
AIR INTAKE	
Max. intake restriction (mm EC)	510
Intake air flow (L/s)	401

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ALTERNATOR CHARACTERISTICS

GENERAL DATA	
Alternator ref.	AT02260T
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)	318
Standby Rating 27°C (kVA)	350
Efficiencies 100% of load (%)	93.70
Air flow (m3/s)	0.43
Short circuit ratio (Kcc)	0.50
Direct axis synchro reactance unsaturated (Xd) (%)	276
Quadra axis synchro reactance unsaturated (Xq) (%)	166
Open circuit time constant (T'do) (ms)	2253
Direct axis transcient reactance saturated (X'd) (%)	12.20
Short circuit transcient time constant (T'd) (ms)	100
Direct axis subtranscient reactance saturated (X"d) (%)	7.30
Subtranscient time constant (T"d) (ms)	10
Quadra axis subtranscient reactance saturated (X"q) (%)	9
Subtranscient time constant (T"q) (ms)	10
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
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
Transcient dip (4/4 load) - PF: 0,8 AR (%)	12.90
No load losses (W)	4800
Heat rejection (W)	16880
Unbalanced load acceptance ratio (%)	100

DIMENSIONS

BASE AND CANOPY SPECIFICATIONS	
Commercial reference of the enclosure	M228
Length (mm)	4475
Width (mm)	1410
Height (mm)	2430
Dry weight (kg)	4042
Tank capacity (L)	470
Acoustic pressure level @1m in dB(A)	81
Sound power level guaranteed (Lwa)	0
Acoustic pressure level @7m in dB(A)	71
Containment in compliance with the 20	000-14-

CE standard (CN09 option)	
Commercial reference of the enclosure	M228 DW
Length (mm)	4527
Width (mm)	1410
Height (mm)	2700
Dry weight (kg)	4565
Tank capacity (L)	1368
Acoustic pressure level @1m in dB(A)	76

Containment DW	
Commercial reference of the enclosure	M228 DW
Length (mm)	4527
Width (mm)	1410
Height (mm)	2700
Dry weight (kg)	4565
Tank capacity (L)	1368
Acoustic pressure level @1m in dB(A)	80
Sound power level guaranteed (Lwa)	0
Acoustic pressure level @7m in dB(A)	70

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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.