



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
- 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

Standard reference conditions 25°C Air Intlet Temp. 1 000 m A.S.L. 60% relative humidity.

V350C2

Motor type	TAD941GE
Alternator type	LSA462VL12

GENERAL CHARACTERISTICS

Frequency (Hz)	50
Reference voltage (V)	T51A2
Max power (kVA)	350
Max power ESP (kWe)	280
Max power ESP (kVA)	318.2
Max power PRP (kWe)	254.5
Intensity (A)	505
Standard Control Panel	TELYS
Optional control panel	KERYS

DIMENSIONS AND NOISE LEVELS

DIMENSIONS COMPACT VERSION

Length (mm)	3160
Width (mm)	1340
Height (mm)	1761
Dry weight (kg)	2700
Tank capacity (L)	470

DIMENSIONS SOUNDPROOFED VERSION

Canopy	M228
Length (mm).	4475
Width (mm).	1410
Height (mm).	2430
Dry weight (kg).	3830
Tank capacity (L).	470
dB(A)@1m (50Hz)	77.2
LWa (50Hz)	97

POWERS

Voltage	ESP		PRP		Standby Amps
	kWe	kVA	kWe	kVA	
415/240	264	330	240	300	459
400/230	280	350	255	318	505
380/220	280	350	255	318	532
240 TRI	264	330	240	300	794
230 TRI	280	350	255	318	879
220 TRI	280	350	255	318	919
200/115	264	330	240	300	953



GENERAL ENGINE DATAS

Motor model	VOLVO TAD941GE , 4- temps, TURBO , AIR/AIR 6 X
Cylinder arrangement	L
Displacement (C.I.)	9.36
Bore (mm) x Stroke (mm)	120 x 138
Compression ratio	17.4
Speed (RPM)	1500
Pistons speed (m/s)	6.9
Maximum stand-by power at rated RPM (kW)	320
Frequency regulation (%)	0.5
BMEP (bar)	24.77
Governor type	ELEC

COOLING SYSTEM

Radiator & Engine capacity (L)	41
Max water temperature (°C)	103
Outlet water temperature (°C)	93
Fan power (kW)	15
Fan air flow w/o restriction (m3/s)	5.9
Available restriction on air flow (mm CE)	20
Type of coolant	GLYCOL
Thermostat (°C)	82-92

EMISSIONS

Emissions PM (g/kW.h)	N/A
Emission CO (g/kW.h)	N/A
Emissions HCNOx (g/kWh)	N/A
Emission HC (g/kW.h)	N/A

EXHAUST

Exhaust gas temperature (°C)	519
Exhaust gas flow (L/s)	775
Max. exhaust back pressure (mm CE)	1000

FUEL

Consumption @ 110% load (L/h)	75.9
Consumption @ 100% load (L/h)	68.1
Consumption @ 75% load (L/h)	50.6
Consumption @ 50% load (L/h)	35.1
Maximum fuel pump flow (L/hr)	108

OIL

Oil capacity (L)	33
Min. oil pressure (bar)	0.7
Max. oil pressure (bar)	6
Oil consumption 100% load (L/h)	0.06
Carter oil capacity (L)	28

HEAT BALANCE

Heat rejection to exhaust (kW)	224
Radiated heat to ambient (kW)	9
Haet rejection to coolant (kW)	129

AIR INTAKE

Max. intake restriction (mm CE)	500
Intake air flow (L/s)	295



V350C2

ALTERNATOR SPECIFICATIONS

GENERAL DATAS

Alternator brand	LERROY SOMER
Alternator type	LSA462VL12
Number of phase	3
Power factor (Cos Phi)	0.8
Altitude (m)	0-1000
Overspeed (rpm)	2250
Number of pole	4
Excitation system	SHUNT
Insulation class / T° class, continuous 40°C	H / H-125
Regulation	R230
Harmonic factor, no load TGH/THC	<2.5
Wave form : NEMA=TIF-(TGH/THC)	<50
Wave form : CEI=FHT-(TGH/THC)	<2
Number of bearing	1
Coupling	DIRECT
Voltage regulation at established rating (%)	0.5
Recovery time (Delta U = 20% transitoire) (ms)	500

OTHER DATAS

Continuous Nominal Rating 40°C (kVA)	318
Standby Rating 27°C (kVA)	350
Efficiencies 4/4 load (%)	93.7
Air flow (m3/s)	0.43
Short circuit ratio (Kcc)	0.5
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) (%)	12.1
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
Zero sequence reactance unsaturated (Xo) (%)	0.5
Negative sequence reactance saturated (X2) (%)	8.2
Armature time constant (Ta) (ms)	15
No load excitation current (io) (A)	1
Full load excitation current (ic) (A)	3.4
Full load excitation voltage (uc) (V)	33
Recovery time (Delta U = 20% transitoire) (ms)	500
Motor start (Delta U = 20% perm. or 50% trans.) (kVA)	694
Transient dip (4/4 charge) - PF : 0,8 AR (%)	12.9
No load losses (W)	4800
Heat rejection (W)	16880

CONTAINMENT

Canopy	M228 DW
Length (mm).	4527
Width (mm).	1410
Height (mm).	2700
Dry weight (kg).	4320
Tank capacity (L).	1368
dB(A)@1m (50Hz)	77.2
LW _a (50Hz)	97

DIMENSIONS AND NOISE LEVELS

TELYS, ergonomic and user-friendly

KERYS, coupling and adaptability



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.

The KERYS control unit has been designed to fulfil the specific requirements of professionals in terms of operating and monitoring generating sets. It therefore offers a wide range of functions.

This control unit is fitted as standard to all generating sets designed to be used for coupling and is offered as an option across the rest of our range.

The KERYS can be built into the central console, fitted directly on the generating set, or in a separate cabinet, to fulfil all the requirements for low and high output power plants.

>The KERYS 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.

Additional functions: coupling, website, diagnostic aid, assistance and maintenance, graphs and archiving, load impact management, 8 available installation configurations, certification in line with international standards.

For more information, please refer to the sales documentation.

Additional specifications :Website, Troubleshooting, Assistance and Maintenance, Plotting and logging, Load impact, 8 configurations available, Compliance with international standards...