



V275C2

Engine VOLVO , TAD734GE
Alternator LEROY SOMER , LSA462L6

STANDARD FEATURES

- 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



Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions	Weight
415/240	211 / 264	192 / 240	367		
400/230	220 / 275	200 / 250	397	Leng : 2900mm [114in]	2200kg [4850lbs] Net
380/220	220 / 275	200 / 250	418	Widt : 1300mm [51in]	2590kg [5710lbs] Gross
240 TRI	211 / 264	192 / 240	635	Heig : 1590mm [63in]	
230 TRI	220 / 275	200 / 250	690		
220 TRI	220 / 275	200 / 250	722		
200/115	220 / 275	200 / 250	794		



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.

TERM OF USE

Standard reference conditions ESP/PRP 27 C°/40 C° Air Intlet Temp, 1000 m/1000 m m A.S.L. 60 % relative humidity.

Model	dB(A)@1m	dB(A)@7m	Dimensions	Weight	Tank
 M227-DW	77.8	67.8	Leng : 4056mm [160in] Widt : 1380mm [54in] Heig : 2340mm [92in]	3850kg [8488lbs] 4720kg [10406lbs]	950 L
 M227	77.8	67.8	Leng : 4004mm [158in] Widt : 1380mm [54in] Heig : 2145mm [84in]	3130kg [6900lbs] 3520kg [7760lbs]	390 L

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ENGINE SPECIFICATIONS

DATA GENERAL DATA	Motor model	VOLVO TAD734GE , 4-temps, TURBO , AIR/AIR 6
	Cylinder arrangement	X
	Displacement (C.I.)	L
	Bore (mm) X Stroke (mm)	7.15
	Compression ratio	108 X 130
	Speed (RPM)	17.1 : 1
	Pistons speed (m/s)	1500
	Maximum stand-by power at rated RPM (kW)	6.5
	Frequency regulation (%)	241
	BMEP (bar)	0.5
	Governor type	24.18
		ELEC
EXHAUST SYSTEM	Exhaust gas temperature (°F)	550
	Exhaust gas flow (L/s)	557
	Max. exhaust back pressure (mm CE)	750
FUEL SYSTEM	Consumption @ 110% load (L/h)	59.6
	Consumption @ 100% load (L/h)	53.4
	Consumption @ 75% load (L/h)	42.6
	Consumption @ 50% load (L/h)	30.5
	Maximum fuel pump flow (L/hr)	300
OIL	Oil capacity (L)	29
	Min. oil pressure (bar)	1
	Max. oil pressure (bar)	4.5
	Oil consumption 100% load (L/h)	0.01
	Carter oil capacity (L)	24
THERMAL BALANCE	Heat rejection to exhaust (kW)	177
	Radiated heat to ambient (kW)	26
	Heat rejection to coolant (kW)	129
AIR INTAKE	AIR INTAKE_entree_max%	300
	Intake air flow (L/s)	272
COOLANT SYSTEM	Radiator & Engine capacity (L)	N/A
	Max water temperature (°C)	103
	Outlet water temperature (°C)	93
	Fan power (kW)	9.2
	Fan air flow w/o restriction (m3/s)	4.8
	Available restriction on air flow (mm CE)	20
	Type of coolant	GLYCOL
	Thermostat (°C)	83-95
EMISSIONS	Emissions PM (g/kW.h)	0.049
	Emission CO (g/kW.h)	0.350
	Emissions HCNOx (g/kWh)	N/A
	Emission HC (g/kW.h)	0.079

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ALTERNATOR SPECIFICATIONS

DATA GENERAL DATA	Alternator brand	LEROY SOMER
	Alternator	LSA462L6
	Number of phase	3
	Power factor (Cos Phi)	0.8
	Altitude (m)	<1000
	Overspeed (rpm)	2250
	Number of pole	4
	Excitation system	SHUNT
	Insulation class / Temperature class	H / H
	Regulation	R230
	Total harmonics 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 0 à 100%	0.5
	Recovery time (Delta U = 20% transitoire) (ms)	500
OTHER DATA	Continuous Nominal Rating 40°C (kVA)	250
	Standby Rating 27°C (kVA)	275
	Efficiencies 4/4 load (%)	92.4
	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 transient reactance saturated (X'd) (%)	15.5
	Short circuit transient time constant (T'd) (ms)	100
	Direct axis subtransient reactance saturated (X''d) (%)	9.3
	Subtransient time constant (T''d) (ms)	10
	Quadra axis subtransient reactance saturated (X''q) (%)	11.5
	Zero sequence reactance unsaturated (Xo) (%)	0.7
	Negative sequence reactance saturated (X2) (%)	10.4
	Armature time constant (Ta) (ms)	15
	No load excitation current (io) (ms)	1
	Full load excitation current (ic) (A)	4
	Full load excitation voltage (uc) (A)	34
	Recovery time (Delta U = 20% transitoire) (ms)	500
	Motor start (Delta U = 20% perm. or 50% trans.) (ms)	462
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	15.9
	No load losses (kW)	3.69
Heat rejection (kW)	16.4	

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CONTROL PANEL

Standard



TELYS

TELYS

Specifications : Frequency meter, Ammeter, Voltmeter
Alarms and faults : Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop
Engine parameters : Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level

Option



KERYS

KERYS

Specifications : Frequency meter, Ammeter, Voltmeter
Alarms and faults : Oil pressure, water temperature, No start-up, Overspeed, Min/max alternator, Min/max battery voltage, Low fuel level, Emergency stop
Engine parameters : Hours counter, Oil pressure, Water temperature, Engine speed, Battery voltage, Fuel level
Additional specifications : Website, Troubleshooting, Assistance and Maintenance, Plotting and logging, Load impact, 8 configurations available, Compliance with international standards...