

V200U

Engine VOLVO , TAD733GE
Alternator LEROY SOMER , LSA462M5

STANDARD FEATURES

200 KW / 250 KVA FULLY PACKAGED GENERATOR SET INCLUDES:

- VOLVO Heavy duty diesel engine, 4 stroke, 1800rpm, Turbo
- LEROY SOMER brushless alternator. IP23 protection, Insulation class H
- MERLIN GERIN, Main line circuit breaker, wired, maximum output rated
- Digital auto-start control panel. CE and UL compliant
- Incorporated metallic fuel tank for day use
- Auto Start control feature included for interoperation with ATS/AMF
- 12V charging alternator and 12V DC electric starter motor
- 12V charged DC starting battery with electrolyte and cables
- Dry type air filter, fuel filter and oil filter elements installed
- Mechanically welded chassis with vibration isolators
- Each unit prototype and individually factory load bank tested
- The generator accepts 100% rated load in one step as per NFPA110 and meets ISO8528-5 class G-3 for transient response
- Compliant with ISO3046, ISO8528, BS4999, BS5514, BS5000PT99, AS1359, IEC34, UTE5100, VDE0530 and ISO9001:2000



AVAILABLE ACCESSORIES AND OPTIONS:

- Steel or Aluminum weather proof, sound attenuated enclosures
- UL142 listed, double wall fuel tanks from 50 to 10,000 Gal
- UL1008 listed, automatic transfer switches from 50 to 3000 Amp
- D.O.T. compliant heavy duty road trailers from 3000 to 30000 Lbs
- Automatic battery chargers, Engine preheaters, Remote annunciators and many more

Voltage	Power ESP kWe/kVA	Power PRP kWe/kVA	Standby Amps	Dimensions - Open	Weight - Open
480/277	200 / 250	182 / 227	301		
440/254	200 / 250	182 / 227	328	Leng : 2370mm [93in]	1850kg [4079lbs] Net
380/220	200 / 250	182 / 227	380	Widt : 1114mm [44in]	2200kg [4850lbs] Gross
240/120	190 / 238	173 / 216	573	Heig : 1538mm [61in]	
230/115	185 / 231	168 / 210	580		
220/127	200 / 250	182 / 227	656		
208/120	190 / 238	173 / 216	661		
600/347	200 / 250	182 / 227	241		

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.

WEATHER / SOUND PROOF ENCLOSURES

Model	dB(A)@1m	dB(A)@7m	Dimensions - Enclosed	Weight - Enclosed	Tank
 M226-DW	81.7	71.7	Leng : 3560mm [140in] Widt : 1200mm [47in] Heig : 2182mm [86in]	2910kg [6415lbs] 3740kg [8245lbs]	868 L 229 Gal
 M226	81.7	71.7	Leng : 3508mm [138in] Widt : 1200mm [47in] Heig : 1830mm [72in]	2490kg [5490lbs] 2840kg [6261lbs]	340 L 90 Gal

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ENGINE SPECIFICATIONS

DATA GENERAL DATA	Engine model	VOLVO TAD733GE , 4-temps, TURBO , AIR/AIR 6 X
	Cylinder arrangement	L
	Displacement (C.I.)	7.15
	Bore (mm) X Stroke (mm)	108 X 130
	Compression ratio	18.1 : 1
	Speed (RPM)	1800
	Pistons speed (m/s)	7.8
	Maximum stand-by power at rated RPM (kW)	218
	Frequency regulation (%)	0.5
	BMEP (bar)	18.4
	Governor type	ELECTRONIC
EXHAUST SYSTEM	Exhaust gas temperature (°C)	494
	Exhaust gas flow (L/s)	685
	Max. exhaust back pressure (mm CE)	1000
FUEL SYSTEM	Fuel consumption 110% load (gal/hr)	54
	Fuel consumption 100% load (gal/hr)	47.6
	Fuel consumption 75% (L/h)	35.2
	Fuel consumption 50% (L/h)	23.8
	Maximum fuel pump flow (L/hr)	450
OIL	Oil capacity (L)	34
	Min. oil pressure (bar)	2
	Max. oil pressure (bar)	4
	Oil consumption 100% load (L/h)	0.09
	Carter oil capacity (L)	31
THERMAL BALANCE	Heat rejection to exhaust (kW)	166
	Radiated heat to ambient (kW)	15
	Heat rejection to coolant (kW)	103
AIR INTAKE	AIR INTAKE_entree_max%	350
	Intake air flow (L/s)	265
COOLANT SYSTEM	Radiator & Engine capacity (L)	35.8
	Max water temperature (°C)	105
	Outlet water temperature (°C)	93
	Fan power (kW)	7.4
	Fan air flow w/o restriction (m3/s)	N/A
	Available restriction on air flow (mm CE)	N/A
	Type of coolant	GLYCOL
	Thermostat (°C)	87-102
EMISSIONS	Emissions PM (g/kWh)	<0.2
	Emission CO (g/kW.h)	<3.5
	Emissions HCNOx (g/kWh)	<4
	Emission HC (g/kW.h)	X

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ALTERNATOR SPECIFICATIONS

GENERAL DATA	Alternator brand	LEROY SOMER
	Alternator	LSA462M5
	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 to 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)	273
	Efficiencies 4/4 load (%)	92.7
	Air flow (cfm)	0.51
	Short circuit ratio (Kcc)	0.43
	Direct axis synchro reactance unsaturated (Xd) (%)	314
	Quadra axis synchro reactance unsaturated (Xq) (%)	188
	Open circuit time constant (T'do) (ms)	2042
	Direct axis transient reactance saturated (X'd) (%)	15
	Short circuit transient time constant (T'd) (ms)	100
	Direct axis subtransient reactance saturated (X''d) (%)	9
	Subtransient time constant (T''d) (ms)	10
	Quadra axis subtransient reactance saturated (X''q) (%)	11.4
	Zero sequence reactance unsaturated (Xo) (%)	0.5
	Negative sequence reactance saturated (X2) (%)	10.3
	Armature time constant (Ta) (ms)	15
	No load excitation current (io) (ms)	1
	Full load excitation current (ic) (A)	3.8
	Full load excitation voltage (uc) (A)	32
	Recovery time (Delta U = 20% transitoire) (ms)	500
	Motor start (Delta U = 20% perm. or 50% trans.) (ms)	496
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	15.8
No load losses (kW)	4.5	
Heat rejection (kW)	15.68	

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CONTROL PANELS

Standard



NEXYS

NEXYS

Specifications : Frequency meter, Ammeter, Voltmeter
 Alarms and faults : Oil pressure, water temperature, Overcrank, Overspeed (>60 kVA), Min/max alternator, Low fuel level, Emergency stop
 Engine parameters : Hours counter, Engine speed, Battery voltage, Fuel level, Air preheating

Option



TELYS 2

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, Remote monitoring and control

ACCESSORIES AND OPTIONS

Option

50 to 3000 AMP Automatic Transfer Switches, UL1008 listed



With a Series 300 transfer switch, you get a product backed by ASCO Power Technologies, the industry leader

- True double-throw operation: single solenoid design is inherently interlocked & prevents contacts from stopping between sources
- Easy-to-read flush-mounted control and display panel provides LED indicators for switch position and source availability
- Standard engine exerciser for weekly automatic testing with or without load
- UL 1008 listed for Transfer Equipment and CSA C22.2 listed
- NFPA 110 for Emergency & Standby Power & the National Electrical (NEC) Articles 700, 701 and 702

Option

50 to 10000 GAL fuel tanks, UL142 listed



- UL listed. Secondary containment tank meeting UL 142 tank requirements
- NFPA compliant. Designed to comply with the installation standards of NFPA 30 and NFPA 37
- Emergency pressure relief vents. Meets UL requirements; ensures adequate venting of inner and outer tank under extreme pressure and/or emergency conditions
- Electrical stub-up area with removable end channel
- Normal vent • Inner tank emergency vent sized to UL 142 specs
- Direct reading mechanical fuel gauge • Fuel in basin switch
- Satin black paint finish

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M226

Weather / Soundproof Enclosure

STANDARD FEATURES

- They protect stationary and mobile generator against the bad weather, against the theft and enables the reduction of the noise level.
- Enclosures are of 12 gauge steel. Steel sheet are electro zinc coated before painting (inside and outside) with a polyester powder rust inhibiting coat .
- High corrosion resistance: stainless covered with zinc and made in dichromate, bolts and rivets, anodized aluminium alloy hinges flexible seals between body sections.
- Soundfoam between 20 and 50 mm (1 to 2 in) acoustical sound treatment
- Lifting eye(s) on top of the enclosure fixed to the skid
- Large doors allow easy access to the generator set for service and monitoring purposes
- Window in "securit" glass mounted on enclosure door for control viewing .
- A critical silencer is mounted inside the enclosure
- Emergency stop button is accessible from outside enclosure.



Model	dB(A)@1m	Sound level dB(A)@7m	LWA	Dimensions (mm)	Weight (kgs)	Tank (l)
V200U	81.7	71.7	N/A	3508 x 1200 x 1830	2490	340

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