





# **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



- 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.

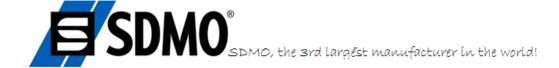
# **WEATHER / SOUND PROOF ENCLOSURES**

	Model	dB(A)@1m	dB(A)@7m	Dimensions - Enclosed	Weight - Enclosed	Tank
(35m)	M226-DW	81.7	71.7	Leng : 3560mm [140in] Widt : 1200mm [47in] Heig : 2182mm [86in]	2910kg [6415lbs] 3740kg [8245lbs]	868 L 229 Gal
EISSMO	M226	81.7	71.7	Leng : 3508mm [138in] Widt : 1200mm [47in] Heig : 1830mm [72in]	2490kg [5490lbs] 2840kg [6261lbs]	340 L 90 Gal

### GENERAL POWER LIMITED. INC

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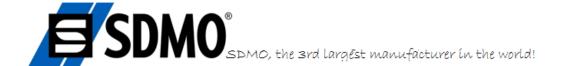
## **ENGINE SPECIFICATIONS**

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

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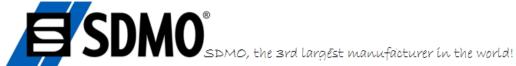
# **ALTERNATOR SPECIFICATIONS**

	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		
DATA	Excitation system	SHUNT		
	Insulation class / Temperature class	H/H		
GENERAL DATA	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		
	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		
OTHER	Direct axis subtransient reactance saturated (X"d) (%)	9		
	Subtransient time constant (T"d) (ms)	10		
DATA	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, Alr preheating

#### Option



# TELYS 2

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**

## 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
- •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

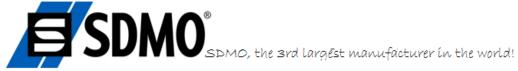


- •UL listed. Secondary containment tank meeting UL 142 tank requirements
- NFPA compliant. Designed to comply with the installation standards of NFPA 30 and NFPA 37
- •Emergency pressure relief vents. Meets UL requirements; ensures adequate venting of inner and outer tank under extreme pressure and/or 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 (I)
V200U	81.7	71.7	N/A	3508 x 1200 x 1830	2490	340

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