

V300U

Engine VOLVO , TAD941GE
Alternator LEROY SOMER , LSA462VL12

STANDARD FEATURES

300 KW / 375 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
- 24V charging alternator and 24V DC electric starter motor
- 24V 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	300 / 375	273 / 341	451		
440/254	300 / 375	273 / 341	492	Leng : 3160mm [124in]	2850kg [6283lbs] Net
380/220	300 / 375	273 / 341	570	Widt : 1340mm [53in]	3320kg [7319lbs] Gross
240/120	300 / 375	273 / 341	902	Heig : 1761mm [69in]	
230/115	300 / 375	273 / 341	941		
220/127	300 / 375	273 / 341	984		
208/120	300 / 375	273 / 341	1041		
600/347	300 / 375	273 / 341	361		

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 Inlet 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
 M228-DW	79.9	69.9	Leng : 4527mm [178in] Widt : 1410mm [56in] Heig : 2700mm [106in]	4320kg [9524lbs] 5688kg [12540lbs]	1368 L 361 Gal
 M228	79.9	69.9	Leng : 4475mm [176in] Widt : 1410mm [56in] Heig : 2430mm [96in]	3980kg [8774lbs] 4450kg [9811lbs]	470 L 124 Gal

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ENGINE SPECIFICATIONS

DATA GENERAL DATA	Engine 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 : 1
	Speed (RPM)	1800
	Pistons speed (m/s)	8.28
	Maximum stand-by power at rated RPM (kW)	329
	Frequency regulation (%)	0.5
	BMEP (bar)	21.1
	Governor type	ELECTRONIC
EXHAUST SYSTEM	Exhaust gas temperature (°C)	467
	Exhaust gas flow (L/s)	885
	Max. exhaust back pressure (mm CE)	1000
FUEL SYSTEM	Fuel consumption 110% load (gal/hr)	79.2
	Fuel consumption 100% load (gal/hr)	70.8
	Fuel consumption 75% (L/h)	52.8
	Fuel consumption 50% (L/h)	37
	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
THERMAL BALANCE	Heat rejection to exhaust (kW)	230
	Radiated heat to ambient (kW)	12
	Heat rejection to coolant (kW)	132
AIR INTAKE	AIR INTAKE_entree_max%	500
	Intake air flow (L/s)	366
COOLANT SYSTEM	Radiator & Engine capacity (L)	41
	Max water temperature (°C)	103
	Outlet water temperature (°C)	93
	Fan power (kW)	25
	Fan air flow w/o restriction (m3/s)	7.2
	Available restriction on air flow (mm CE)	20
	Type of coolant	GLYCOL
	Thermostat (°C)	82-92
EMISSIONS	Emissions PM (g/kWh)	0.10
	Emission CO (g/kW.h)	1.1
	Emissions HCNOx (g/kWh)	5.5
	Emission HC (g/kW.h)	X

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ALTERNATOR SPECIFICATIONS

DATA GENERAL DATA	Alternator brand	LEROY SOMER
	Alternator	LSA462VL12
	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	<4
	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)	381
	Standby Rating 27°C (kVA)	429
	Efficiencies 4/4 load (%)	93.9
	Air flow (cfm)	0.51
	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)	2260
	Direct axis transient reactance saturated (X'd) (%)	12
	Short circuit transient time constant (T'd) (ms)	105
	Direct axis subtransient reactance saturated (X''d) (%)	7
	Subtransient time constant (T''d) (ms)	10
	Quadra axis subtransient reactance saturated (X''q) (%)	9
	Zero sequence reactance unsaturated (Xo) (%)	0.3
	Negative sequence reactance saturated (X2) (%)	8.2
	Armature time constant (Ta) (ms)	16
	No load excitation current (io) (ms)	1.1
	Full load excitation current (ic) (A)	3.5
	Full load excitation voltage (uc) (A)	35
	Recovery time (Delta U = 20% transitoire) (ms)	<500
	Motor start (Delta U = 20% perm. or 50% trans.) (ms)	1000
	Transient dip (4/4 charge) - PF : 0,8 AR (%)	13.5
	No load losses (kW)	7.3
	Heat rejection (kW)	19.5

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CONTROL PANEL

Standard

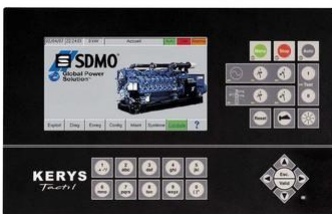


TELYS 2

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

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, Synchronization/Parallel capable

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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M228

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)
V300U	79.9	69.9	N/A	4475 x 1410 x 2430	3980	470

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