

VOLVO 94-142 kVA

Technical Specifications



ENGINE

- VOLVO series heavy duty diesel engine
- 4 cycle, water cooled, turbocharged & air to air charge cooled / turbocharged & air to water charge cooled
- Direct injection
- Electronic governor system
- 24 volt self-starter and charger alternator
- Changeable air, fuel and oil filter
- Tropical type radiator
- Flexible fuel pipe
- Oil discharge valve and extension pipe
- Industrial type silencer, exhaust spiral or compensator
- Maintenance free battery
- Engine block water heater (in automatic models)
- Diesel gen-set maintenance and operating instructions and electrical circuit diagram

QUALITY STANDARD

Our gen-sets; VDE 0530, BS 4999, BS 5000, IEC 34, TS ISO 8528, TS EN 12601 are manufactured in accordance with the standards mentioned above. Our company fulfills ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 management system requirements, and have the accredited certificates of Kiwa & MEYER. Also we've GOST-R certificate. Our gen-sets have TS ISO 8528-5, TS EN 12601 product standard certificates.

Our gen-sets are CE certified in accordance with the requirements of 2000/14/EC, noise emission directive.

ALTERNATOR

- Brushless, single bearing, flexible disc 4 poles alternator for harmonic failure
- H type isolation class
- IP 21-23 protection class
- Self exciter
- Electronic automatic voltage regulator
- Stator 2/3 step for harmonic failure

EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-6 gensets
- 3 pole/4 pole automatic transfer panel (A.T.S.)
- Fuel and oil heater
- Alternator heater
- Automatic fuel filling system
- Fuel-water separator filter

CANOPY

- Modular type sound-proof canopy
- Canopy installation executed with screw and nut, without welding process
- Epoxy and polyester powder painted canopy
- Canopy designed for easy maintenance
- Lockable doors on both sides of canopy
- Emergency stop button
- Transparent panel inspection window

AUTOMATIC CONTROL PANEL

- LCD display screen
- Battery charger
- Hardware and materials needed
- USB port & RS-485 output

GEN-SET SAFETY PROTECTION & ALARMS

- High water temperature
- Low oil pressure
- High & low engine speed
- Low radiator water level
- Over current load
- High & low genset voltage
- Start/stop failure



Easy maintenance canopy design



Refilling from the outside of the canopy



Canopy made of galvanized steel



Warning system for decreasing fuel with electronic fuel level sender



VOLVO Series Diesel Generator Sets 94-142 kVA

MODEL				E VL XX 0094	E VL XX 0109	E VL XX 0142	
GROUP	GEN - SET POWER	STAND BY	kVA	94	109	142	
			kW	76	87	114	
		PRIME	kVA	85	100	130	
			kW	68	80	104	
	CANOPY DIMENSION (W x L x H) mm				1000 x 2880 x 1610	1000 x 2880 x 1610	1000 x 2880 x 1610
	CANOPY WEIGHT kg				1275	1305	1565
	OPEN DIMENSION (W x L x H) mm				1000 x 2400 x 1480	1000 x 2400 x 1480	1000 x 2400 x 1480
	OPEN WEIGHT kg				1070	1100	1315
ENGINE	BRAND			VOLVO	VOLVO	VOLVO	
	TYPE			TAD 530 GE	TAD 531 GE	TAD 532 GE	
	POWER	STAND BY	kW	83	98	125	
		PRIME	kW	74	88	112	
	SPEED (rpm)			1500	1500	1500	
	CYCLE			4	4	4	
	DISPLACEMENT (lt)			4,76	4,76	4,76	
	NUMBER OF CYLINDERS			4 IN LINE	4 IN LINE	4 IN LINE	
	BORE AND STROKE (mm x mm)			108 x 130	108 x 130	108 x 130	
	COMPRESSION RATIO			18 : 1	18 : 1	17,5 : 1	
	GOVERNOR TYPE			ELECTRONIC			
	INDUCTION			TURBOCHARGED - AIR TO AIR			
	COMBUSTION SYSTEM			DIRECT INJECTION			
	COOLING SYSTEM			WATER			
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		18,89	22,57	31,47	
75% OF PRIME POWER		14,3	16,93	23,16			
50% OF PRIME POWER		10,06	11,65	15,66			
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			13	13	11		
TOTAL COOLANT CAPACITY (lt)			19,7	19,7	20,20		
FUEL TANK CAPACITY (lt)			180	180	280		

Emsa reserves the right to make changes in model, technical specifications, color, equipment & accessories without prior notice.