

ДЭС VOLVO 414-501 кВА

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 generators are manufactured in compliance with VDE 0530, BSE 4999 BS5000, IEC 34, TS ISO 8528, TS EN ISO 3744, TS EN ISO 3746, TS EN 60034-1, TS EN 60204-1, TS EN 60335-1, TS EN 61439-1, EN 61000, TS EN ISO12100 standards.

We have ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 and ISO10002:2006 management system certificates from Kiwa & MEYER, an accredited independent quality organization.

Our generators up to 400 kw are manufactured in compliance with 2000/14/EC European noise emission directive and certified from Ente Certificazione Macchine.

We also have TS ISO 8528-4, TS ISO 8528-5, TS EN 13501-1+A1:2013 flame retardancy and TS EN ISO 9227 certificates against anti-corrosion together with CE Declaration.

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

- The alternator windings are protected by insulating varnish against oil and acid.

EXTRA EQUIPMENTS

- Charge ammeter
- Moulded case circuit breaker (in automatic models)
- Hospital/Critical type silencer
- Sound-proof canopy
- Mobile - trailer
- Synchronization control panel for 2-16 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
- PMG warning system

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 414-501 kVA

MODEL				E VL XX 0414	E VL XX 0452	E VL XX 0501	
GROUP	GEN - SET POWER	STAND BY	kVA	414	452	501	
			kW	331	362	401	
		PRIME	kVA	378	412	451	
			kW	302	329	361	
	CANOPY DIMENSION (W x L x H) mm				1400 x 3950 x 2605	1400 x 3950 x 2605	1400 x 3950 x 2605
	CANOPY WEIGHT kg				3905	3905	3945
	OPEN DIMENSION (W x L x H) mm				1400 x 3500 x 1920	1400 x 3500 x 1920	1400 x 3500 x 1920
	OPEN WEIGHT kg				3390	3390	3430
ENGINE	BRAND			VOLVO	VOLVO	VOLVO	
	TYPE			TAD 1343 GE	TAD 1344 GE	TAD 1345 GE	
	POWER	STAND BY	kW	356	389	431	
		PRIME	kW	325	354	388	
	SPEED (rpm)			1500	1500	1500	
	CYCLE			4	4	4	
	DISPLACEMENT (lt)			12,78	12,78	12,78	
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE	
	BORE AND STROKE (mm x mm)			131 x 158	131 x 158	131 x 158	
	COMPRESSION RATIO			18,1 : 1	18,1 : 1	18,1 : 1	
	GOVERNOR TYPE			ELECTRONIC			
	INDUCTION			TURBOCHARGED - AIR TO AIR			
	COMBUSTION SYSTEM			DIRECT INJECTION			
	COOLING SYSTEM			WATER			
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		74,29	81,77	90,54	
75% OF PRIME POWER		56	62,27	68,25			
50% OF PRIME POWER		38,7	42,15	45,97			
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			36	36	36		
TOTAL COOLANT CAPACITY (lt)			46	46	46		
FUEL TANK CAPACITY (lt)			1043	1043	1043		

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