

## VOLVO 414-501 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 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				1600 x 3700 x 2600	1600 x 3700 x 2600	1600 x 3700 x 2600
	CANOPY WEIGHT kg				3620	3715	3800
	OPEN DIMENSION (W x L x H) mm				1600 x 3700 x 2700	1600 x 3700 x 2700	1600 x 3700 x 2700
	OPEN WEIGHT kg				3080	3175	3260
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			73,41	80,8	89,47
		75% OF PRIME POWER			55,35	61,53	67,44
50% OF PRIME POWER			38,24	41,65	45,42		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)				36	36	36	
TOTAL COOLANT CAPACITY (lt)				44	44	44	
FUEL TANK CAPACITY (lt)				1050	1050	1050	

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