

# ДЭС VOLVO 556-700 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 556-700 kVA

MODEL				E VL XX 0556	E VL XX 0651	E VL XX 0700
GROUP	GEN - SET POWER	STAND BY	kVA	556	651	700
			kW	445	521	560
		PRIME	kVA	505	591	630
			kW	404	473	504
	CANOPY DIMENSION (W x L x H) mm			1600 x 4000 x 2700	1600 x 4000 x 2700	1800 x 4000 x 2700
	CANOPY WEIGHT kg			4245	4440	5005
	OPEN DIMENSION (W x L x H) mm			1600 x 3500 x 2200	1600 x 3500 x 2200	1800 x 3500 x 2250
	OPEN WEIGHT kg			3725	3920	4485
ENGINE	BRAND			VOLVO	VOLVO	VOLVO
	TYPE			TAD 1641 GE	TAD 1642 GE	TWD 1643 GE
	POWER	STAND BY	kW	473	554	596
		PRIME	kW	430	503	536
	SPEED (rpm)			1500	1500	1500
	CYCLE			4	4	4
	DISPLACEMENT (lt)			16,12	16,12	16,12
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE
	BORE AND STROKE (mm x mm)			144 x 165	144 x 165	144 x 165
	COMPRESSION RATIO			16,5 : 1	16,5 : 1	16,5 : 1
	GOVERNOR TYPE			ELECTRONIC		
	INDUCTION			TURBOCHARGED - AIR TO AIR		TURBOCHARGED - AIR TO WATER
	COMBUSTION SYSTEM			DIRECT INJECTION		
	COOLING SYSTEM			WATER		
	FUEL CONSUMPTION (lt/h)	100% OF PRIME POWER		101,88	118,58	127,00
		75% OF PRIME POWER		75,25	87,59	93,81
50% OF PRIME POWER		50,94	58,4	62,54		
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			42	48	48	
TOTAL COOLANT CAPACITY (lt)			63	63	95	
FUEL TANK CAPACITY (lt)			1043	1043	1175	

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