



## VOLVO

### 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 278 - 330 - 385kVA

MODEL				AVJ - 278	AVJ - 330	AVJ - 385	
GROUP	GEN-SET POWER	STAND BY	kVA	278	330	385	
			kW	219	264	308	
		PRIME	kVA	250	300	350	
			kW	200	240	280	
	CANOPY DIMENSION (W x L x H) mm				1200x3600x2490	1500x3950x2525	1500x4050x2525
	CANOPY WEIGHT kg				2639	3195	5002
	OPEN DIMENSION (W x L x H) mm				1200x3100x2490	1500x3600x2110	1500x3600x2110
	OPEN WEIGHT				2350	2877	4276
ENGINE	BRAND			VOLVO	VOLVO	VOLVO	
	TYPE			TAD 734 GE	TAD 1341 GE	TAD 1342 G2	
	POWER	STAND BY	kW	98	298	333	
		PRIME	kW	88	271	303	
	SPEED (rpm)			1500	1500	1500	
	CYCLE			4	4	4	
	DISPLACEMENT (lt)			7.15	12.78	12.78	
	NUMBER OF CYLINDERS			6 IN LINE	6 IN LINE	6 IN LINE	
	BORE x STROKE (mm x mm)			108 x 130	131 x 158	131 x 158	
	COMPRESSION RATIO			17 : 1	18.1 : 1	18.1 : 1	
	GOVERNOR TYPE			ELECTRONIC	ELECTRONIC	ELECTRONIC	
	INDUCTION			TURBOCHARGED - AIR TO AIR	TURBOCHARGED - AIR TO AIR	TURBOCHARGED - AIR TO AIR	
	COMBUSTION SYSTEM			DIRECT	DIRECT	DIRECT	
	COOLING SYSTEM			WATER	WATER	WATER	
	FUEL CONSUMPTION lt / h	%100 PRIME POWER		52	62	69	
		%75 PRIME POWER		41	47	52	
		%50 PRIME POWER		30	33	36	
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			29	36	36		
TOTAL COOLANT CAPACITY (lt)			32	46	46		
FUEL TANK CAPACITY (lt)			360	N/A	980		

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

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