



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

GEN-SET SAFETY PROTECTION & ALARMS

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



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





ARMAK

J E N E R A T Ö R



VOLVO Series

Diesel Generator Sets

VOLVO Series Diesel Generator Sets

385 - 415 - 450 kVA

MODEL				AVJ -385	AVJ -415	AVJ -450
GROUP	GEN-SET POWER	STAND BY	kVA	385	415	450
			kW	308	332	360
		PRIME	kVA	350	377	409
			kW	280	301	327
	CANOPY DIMESNION (W x L x H) mm			1400x4000x2200	1400x4000x2200	1400x4000x2200
	CANOPY WEIGHT kg			3100	3750	3850
	OPEN DIMENSION (W x L x H) mm			1400x4600x2000	1400x4600x2000	1400x4600x2000
	OPEN WEIGHT			3500	3350	3450
	ENGINE	BRAND			VOLVO	VOLVO
TYPE			TAD 1342 G2	TAD 1343 GE	TAD 1344 GE	
POWER		STAND BY	kW	333	356	389
		PRIME	kW	303	323	354
SPEED (rpm)			1500	1500	1500	
CYCLE			4	4	4	
DISPLACEMENT (lt)			12,78	12,78	12,78	
NUMBER OF CYLNDERS			6 IN LINE	6 IN LINE	6 IN LINE	
BORE x 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	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		69	75	82
		%75 PRIME POWER		52	56	62
		%50 PRIME POWER		36	38	42
TOTAL LUBRICATION SYSTEM CAPACITY (lt)			36	36	36	
TOTAL COOLANT CAPACITY (lt)			46	46	46	
FUEL TANK CAPACITY (lt)			980	980	980	

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

Armak Makine Mühendislik İnş. San. ve Tic. Ltd. Şti.

Denizköşkler Mah. Tunay Sk. No:28
Avcılar / İSTANBUL / TURKEY

T: 0212 694 66 66

F: 0212 593 09 60

armakmakine@armakmakine.com

www.armakmakine.com