

275
450 kVA

220
360 kW



Generating Set Model	Power Pf.0,8 400 / 230 V - 50 Hz	
	Standby kVA	Prime kVA
AVP 275	275	250
AVP 350	350	320
AVP 385	385	350
AVP 415	415	380
AVP 450	450	410

Standby: Continuous running at variable load for duration of an emergency.No overload is permitted on these ratings.

Prime: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. Contact us for the other running periods.

STANDARD GENSET SPECIFICATIONS

ENGINE

- VOLVO heavy duty diesel engine
- Four cycle water cooled, turbo charged
- Direct injection fuel system
- Electronic governor control system
- Replaceable wet type cylinder liners
- 24 V.D.C.starter and charge alternator
- Replaceable fuel filter, oil filter and dry element air filter
- Cooling radiator and fan
- Flexible fuel connection hoses and manual sump oil drain valve
- Industrial capacity exhaust silencer and steel bellows
- Starter battery (with lead acid) including Rack and Cables
- Jacket water heater
- Manual for application and installation

ALTERNATOR

- Brushless, single bearing system, 4 poles, flexibel disc
- Insulation class H
- Standard degree of protection IP21
- Self-exciting and self-regulating
- Solid state automatic voltage regulator
- Screen protected and drip proof
- Impregnation with tropicalized epoxy varnished
- Stator winding with 2/3 pitch for improved harmonics
- Close voltage regulation

CHASSIS

- Steel chassis and antivibration pads
- Base frame design incorporates an integral fuel tank
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Dial type fuel gauge and drain plug on the fuel tank

CANOPY

- All canopy parts are designed with modular principles
- Without welding assembly
- All metal canopy parts are painted by electrostatic polyester powder paint
- Panel window
- Lockable doors on each side.
- Easy maintenance and operation
- Easy lifting and moving, central lifting
- Thermally insulated engine exhaust system
- Exterior emergency stop push button.

QUALITY STANDARDS

- ISO 9001:2008, TS ISO 8528-4, TS ISO 8528-5, TS ISO 8528-8, BS EN ISO 14001:2004, BS OHSAS 18001:2007, TS 12650
- Generators Sets' voltage and frequency regulation comply with ISO 8528-5
- Generators Sets' can take 100% load at one step according to NFPA110

CONTROL SYSTEM

1) Auto. Mains Failure control panel - P732

Control, supervision and protection panel is mounted on the gen-set base frame. The control panel is equipped as follows:

Equipments:

- Control with DSE, model 7320 module
- Static battery charger
- Emergency stop push button.

a) Control Module DSE 7320 Features

- The module monitors a mains supply and controls a standby generating set with automatic transfer switch
- Module indicates operational status and fault conditions by means of its LCD display
- Microprocessor controlled
- 132 x 64 pixel LCD display makes information easy to read
- Front panel programming and also via PC software
- Soft touch membrane keypad and five key menu navigation
- Remote communication via RS 232, RS 485 and Ethernet and SMS messaging
- Event logging (50) showing date and time
- Multiple date and time engine exercise mode and maintenance scheduler

Controls

Stop - Manual - Auto - Test - Start - Mute/Lamp test - Transfer to generator - Transfer to mains - Menu navigations buttons

b) Instruments via LCD display

Engine

- Oil pressure (PSI & Bar)
- Temperature (°C & °F)
- Speed RPM
- Run time
- Battery volts
- Maintenance due

Mains

- Volts (L-L / L-N)
- Frequency (Hz)

c) Protections

Warning

- Charge failure
- Battery under voltage
- Fail to stop
- Low fuel level (opt.)
- kW over load
- Negative phase sequence
- Loss of speed signal

Pre-alarms

- Low oil pressure
- High engine temperature
- Low engine temperature
- Over/Under speed
- Under/over generator frequency
- Under/over generator voltage
- ECU warning

d) Led Indication

- Mains available
- Mains on load
- Generator available
- Generator on load

Generator

- Volts (L-L / L-N)
- Currents (L1, L2, L3)
- Frequency (Hz)
- kW
- Cosφ
- kVA, kVAr,
- kWh, kVAh, kVArh
- Phase sequence

Shut Downs

- Fail to start
- Emergency stop
- Low oil pressure
- High engine temperature
- Low coolant level
- Over/under speed
- Under/over generator frequency
- Under/over generator voltage
- Oil pressure sensor open
- Phase rotation

Electrical trip

- Earth fault
- kW over load
- Generator over current
- Negative phase sequence

2) Power Outlet Terminal Board Mounted on the Genset Base frame



DSE 7320

DIESEL GENERATING SETS 400 / 230 V - 50Hz

GROUP
DIESEL ENGINE

Model			AVP 275	AVP 350	AVP 385	AVP 415	AVP 450
Power	Standby	kVA	275	350	385	415	450
		kW	220	280	308	332	360
Pf. 0,8	Prime	kVA	250	320	350	380	410
		kW	200	256	280	304	328
Engine Make			Volvo				
Model			TAD734GE	TAD1341GE	TAD1342GE	TAD 1343GE	TAD 1344GE
Gross Engine Power Output (at rated rpm)	kW		250	308	343	366	399
	Hp		340	419	466	498	543
Aspiration and Cooling			Turbocharged & IC				
Total Displacement		Liter	7,15	12,78			
No. of Cylinders and Build			6-Inline				
Engine Speed			1500 rpm				
Bore ve Stroke		mmxmm	108 x 130	131 x 158			
Compression Ratio			17:1	18,1:1			
Governor Type			Electronic				
Fuel Consumption	L/h	1/2 Load	31,1	33,4	37	39,4	42,8
		3/4 Load	43,5	48,3	53,3	57	63,3
		Full Load	54,5	63,1	70,3	75,7	83,1
Fuel Tank Capacity		Liter	470	700			
Total Oil Capacity		Liter	29	36			
Coolant Capacity (Engine and radiator)		Liter	32	44			
Radiator Cooling Air		m ³ /min	260	330	402	408	390
Air intake - Engine		m ³ /min	16,3	24,1	25,9	27	28
Exhaust Gas Flow		m ³ /min	33,4	52	57	60	67,5
Exhaust Gas Temperature		°C	550	414	408	420	465

IC: Inter Cooler

Open Types

Dimensions (Length x Width x Height)	m	2,75 x 1,30 x 1,71	3,05 x 1,55 x 1,86	3,05 x 1,55 x 1,86	3,14 x 1,55 x 1,86	3,21 x 1,55 x 1,86
Dry Weight	kg.	2320	2900	2950	3150	3170

Sound Attenuated Types

Canopy Model		MS 60	MS 70			
Dimensions (Length x Width x Height)	m	3,96 x 1,36 x 2,097	4,46 x 1,61 x 2,48			
Dry Weight	kg.	2850	3930	3940	4040	4200

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

Optional Equipments

Diesel Engine

- Oil heater

Alternator

- 3 pole output circuit breaker
 - Anti-condensation heater
 - Oversized alternator

Panel

- Charge ammeter
 - Transfer switch 3 pole
 - Transfer switch 4 pole
 - Earth fault, single set
- Automatic synchronising and power control

Accessories

- Bulk fuel tank
- Automatic or manual fuel filling system
- Fuel - water separator filter
- Low fuel level alarm
- Residential silencer
- Enclosure or soundproof canopy
- Trailer
- Tool kit for maintenance



Aksa makes its sound attenuated generator sets sound pressure level tests in accordance with Directive 2000/14/EC.

Aksa Jeneratör Sanayi A.Ş.
Rüzgarlıbağçe Mah., Özalp Çıkmazi, No:10
34805, Kavacık - Beykoz / İSTANBUL
T: 0216 681 00 00 F: 0216 681 57 81
e-mail: aksa@aksa.com.tr www.aksa.com.tr