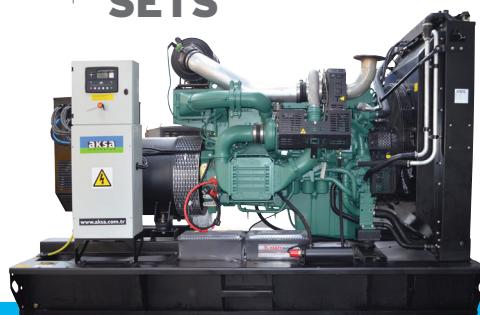


**VOLVO
PENTA**

DIESEL POWERED GENERATING SETS

**505
700 kVA**

**404
560 kW**



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, flexible 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

aksa POWER
GENERATION

Generating Set Model	Power Pf.0.8	
	400 / 230 V - 50 Hz	Standby kVA
AVP 505	505	455
AVP 550	550	500
AVP 655	655	595
AVP 700	700	636

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.

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)

Generator

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

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

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

d) Led Indication

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

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



DSE 7320

DIESEL GENERATING SETS 400 / 230 V - 50Hz

Model		AVP 505	AVP 550	AVP 655	AVP 700			
Power Pf. 0,8	Standby kVA	505	550	655	700			
	kW	404	440	524	560			
Prime kVA	455	500	595	636				
	kW	364	400	476	508,8			
Engine Make		Volvo						
Model		TAD1345GE	TAD1641GE	TAD1642GE	TWD1643GE			
Gross Engine Power Output (at rated rpm)	kW Hp	441 600	484 658	565 768	613 834			
Aspiration and Cooling		Turbocharged & IC			Turbocharged & AC			
Total Displacement	Liter	12,78	16,12					
No. of Cylinders and Build	6 - Inline							
Engine Speed	rpm	1500						
Bore ve Stroke	mmxmm	131 x 158	144 x 165					
Compression Ratio	18,1:1							
Governor Type	Electronic							
Fuel Consumption L/h	1/2	46,6	51,6	59	63,8			
	Load 3/4	69,2	76,3	88,4	95,6			
	Full	91,8	103,2	119,7	129,5			
Fuel Tank Capacity	Liter	700	850	850	1000			
Total Oil Capacity	Liter	36	48	48	48			
Coolant Capacity (Engine and radiator)	Liter	44	60	60	128			
Radiator Cooling Air	m³/min	402	505	600	650			
Air intake - Engine	m³/min	27,6	38	41,2	46,96			
Exhaust Gas Flow	m³/min	58,3	92	102,5	111,8			
Exhaust Gas Temparature	°C	570	455	482	463			

IC: Ara sogutuculu (Inter Cooler)

AC: Son Sogutuculu (After Cooler)

Open Types

Dimensions (Length x Width x Height)	m	3,21 x 1,55 x 1,86	3,34 x 1,55 x 2,2	3,54 x 1,55 x 2,25
Dry Weight	kg.	3170	3200	4200

Sound Attenuated Types

Canopy Model	MS 70	MS 80	MS 85
Dimensions (Length x Width x Height)	m	4,46 x 1,61 x 2,48	4,81 x 1,61 x 2,62
Dry Weight	kg.	4205	4700

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 validation of the sound level test has been approved by the notified body szutest

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