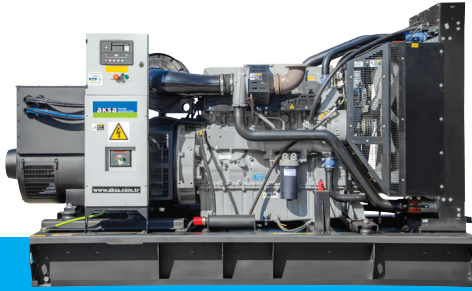


275
450 kVA

220
360 kW



Generating Set Model	Power P.f.0,8	
	400 / 230 V - 50 Hz	
	Standby kVA	Prime kVA
AP 275	275	250
AP 330	330	300
AP 385	385	350
AP 400	400	350
AP 440	440	400
AP 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

- PERKINS heavy duty diesel engine
- Four cycle water cooled, turbo charged
- Direct injection fuel system
- Electronic governor control system
- Replaceable type cylinder liners
- 24 V.D.C.starter
- Replaceable fuel filter, oil filter and dry element air filter
- Cooling raditor 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 IP23
- 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

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
- Cos
- 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

d) Led Indication

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

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



DSE 7320

DIESEL GENERATING SETS
400 / 230 V - 50Hz
GROUP

Model			AP 275	AP 330	AP 385	AP 400	AP 440	AP 450	
Power P.f. 0,8	Standby	kVA	275	330	385	400	440	450	
		kW	220	264	308	320	352	360	
	Prime	kVA	250	300	350		400	410	
		kW	200	240	280		320	328	
Engine Made			Perkins						
Model			1506A-E88TAG3	1506A-E88TAG5	2206A-E13TAG2		2206A-E13TAG3		
Gross Engine Power Output (at rated rpm)			kW	258	307	368,4		412,5	
			HP	346	411,7	494		553,2	
Aspiration and Cooling			Turbo Charged + IC						
Total Displacement			Liter			12,5			
No. of Cylinders and Build			6L						
Engine Speed			rpm						
Bore and Stroke			mm x mm			130 x 157			
Compression Ratio			16,1:1			16,3:1			
Governor Type			Electronic						
Fuel Consumption (L/h)			Load	1/2	28,9	33,0	37		42
				3/4	41,6	48,2	54		62
				Full	55,5	64,9	71		81
Fuel Tank Capacity			Liter			850			
Total Oil Capacity			Liter			40			
Coolant Capacity (Engine and radiator)			Liter			51,4			
Radiator Cooling Air			m ³ /dk.			563			
Air intake - Engine			m ³ /dk.			23,6		26,4	
Exhaust Gas Flow			m ³ /dk.			64,8		72,4	
Exhaust Gas Temperature			°C			630			

IC: Inter Cooler
Open Types

Dimensions (Lenght x Width x Height)	m	2750 x 1300 x 1702	2750 x 1300 x 1734	3205 x 1550 x 2105			
Dry Weight	kg	2130	2350	-	3180	-	

Sound Attenuated Types

Canopy Model		MS 60		MS 80			
Dimensions (Lenght x Width x Height)	m	3960 x 1356 x 2097		4810 x 1606 x 2615			
Dry Weight	kg	2860	3030	4215	4220	4260	4400

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

Accessories

- Bulk fuel tank
- Automatic or manual fuel filling system
- Fuel - water separator filter
- Manual oil drain pump
- 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

Aksa Jeneratör Sanayi A.Ş.
 Rüzgarlıbahçe 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