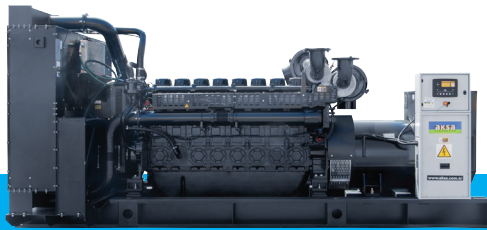


1400
2500 kVA

1120
2000 kW



Generating Set Model	Power P.f.0,8	
	400 / 230 V - 50 Hz	
	Standby kVA	Prime kVA
AP 1400	1400	1265
AP 1650	1650	1500
AP 1875	1875	1705
AP 2500	2500	2250

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 wet type cylinder liners
- 24 V.D.C.starter and charge alternator
- 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
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Seperate fuel tank
- Lifting eyes allow is the transportation by a crain

CANOPY

- All canopy parts are designed with modular principles
- All metal canopy parts are painted by electroctatic polyester powder paint
- Lockable doors on each side
- Acoustic fire retardant foam is covered in side the enclosure
- Aluminium internal floor (AK99 except)
- Residential silencer
- The enclosure have four lifting points
- Easy maintenance and operation
- Model AK99 enclosure is droop over style
- Colour black/yellow (RAL 9005 / RAL 1003)
- Emergency stop push button is installed outside of canopy

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 1400	AP 1650	AP 1875	AP 2500	
Power P.f. 0,8	Standby	kVA	1400	1650	1875	2500	
		kW	1120	1320	1500	2000	
	Prime	kVA	1265	1500	1705	2250	
		kW	1012	1200	1364	1800	
Engine Made			Perkins				
Model			4012-46TWG2A	4012-46TAG2A	4012-46TAG3A	4016-61TRG3	
Gross Engine Power Output (at rated rpm)			kW	1224	1459	1643	
			HP	1641	1957	2203	2927
Aspiration and Cooling			Turbo Charged + AC	Turbo Charged + IC		Turbo charged 2 Pump & 2 Loop	
Total Displacement			Liter	45,84		61,12	
No. of Cylinders and Build			12V			16V	
Engine Speed			rpm				
Bore and Stroke			mm x mm				
Compression Ratio			13:1				
Governor Type			Electronic				
Fuel Consumption (L/h) Load			1/2	143,0	157,0	187,0	234,0
			3/4	196,0	234,0	275,0	344,0
			Full	259,0	310,0	370,0	470,0
Fuel Tank Capacity (Open Set)			Liter				
Total Oil Capacity			Liter			213	
Coolant Capacity (Engine and radiator)			Liter			703,24	
Radiator Cooling Air			m ³ /dk.			3269,4	
Air intake - Engine			m ³ /dk.			175	
Exhaust Gas Flow			m ³ /dk.			525	
Exhaust Gas Temperature			°C				

IC: Inter Cooler
AC: After Cooler

Open Types

Dimensions (Lenght x Width x Height)	m	4905 x 1880 x 2366	4920 x 2120 x 2410	5290 x 2220 x 2752	5900 x 2390 x 3020
Dry Weight	kg	8865	10200	10400	14000

Sound Attenuated Types

Canopy Model		AK 96	AK 98	AK 99	
Dimensions (Lenght x Width x Height)	m	7500 x 2300 x 2506 / 3457	9000 x 2270 x 2551 / 3478	9000 x 2800 x 3307 / 4246	9000 x 2800 x 3307 / 4452
Dry Weight	kg	11200	14300	-	18000

Optional Equipments
Diesel Engine

- Oil heater
- AP 1400 and AP 2500 remote radiator

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
- Low fuel level alarm
- Residential silencer
- Enclosure or soundproof canopy
- 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.
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