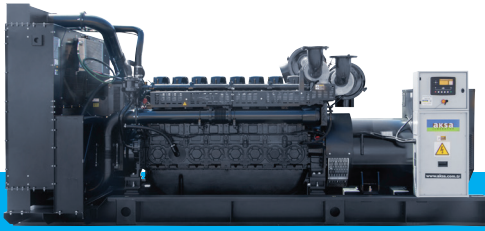


880
1250 kVA

704
1000 kW



Generating Set Model	2250Power P.f.0,8	
	400 / 230 V - 50 Hz	
	Standby kVA	Prime kVA
AP 880	880	800
AP 900	900	805
AP 1000	1000	910
AP 1125	1125	1023
AP 1250	1250	1125

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 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 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
- Separate 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
- Residential silencer
- The enclosure have four lifting points
- Easy maintenance and operation
- 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 880	AP 900	AP 1000	AP 1125	AP 1250
Power P.f. 0,8	Standby	kVA	880	900	1000	1125	1250
		kW	704	720	800	900	1000
	Prime	kVA	800	805	910	1023	1125
		kW	640	644	728	818,4	900
Engine Made			Perkins				
Model			4006-23TAG3A	4008-TAG1A	4008-TAG2A	4008-30TAG3	
Gross Engine Power Output (at rated rpm)		kW	786	882	985	1105	
		HP	1054	1183	1321	1482	
Aspiration and Cooling			Turbo Şarjlı + IC				
Total Displacement		Liter	22,9	30,56			
No. of Cylinders and Build			6L	8L			
Engine Speed		rpm	1500				
Bore and Stroke		mm x mm	160 x 190				
Compression Ratio			13,6:1				13:1
Governor Type			Electronic				
Fuel Consumption (L/h)		Load	1/2	90	98	111,0	120
			3/4	130	143	162,0	188
			Full	172	195	215,0	244
Fuel Tank Capacity		Liter	1500				
Total Oil Capacity		Liter	113,4	153			
Coolant Capacity (Engine and radiator)		Liter	120	133	174,6	140	
Radiator Cooling Air		m ³ /dk.	870	1359,6	1884,6	1104	
Air intake - Engine		m ³ /dk.	73	74	80,5	96	
Exhaust Gas Flow		m ³ /dk.	193	183	200	240	
Exhaust Gas Temperature		°C	500	440	465	482	

IC: Inter Cooler
AC: After Cooler

DIESEL ENGINE
Open Types

Dimensions (Lenght x Width x Height)		m	3900 x 1690 x 2273	4876 x 1973 x 2205	4646 x 2204 x 2000
Dry Weight		kg	5500	6250	7000

Sound Attenuated Types

Canopy Model			AK 91	AK 96
Dimensions (Lenght x Width x Height)		m	5920 x 2200 x 2353 / 3328	7500 x 2300 x 2517 / 7500 x 2300 x 2506 / 3566
Dry Weight		kg	7500	7650 / 10200 / 10350 / 11200

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
- Low fuel level alarm
- Residential silencer
- Enclosure or soundproof canopy
- Tool kit for maintenance



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

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