

AKSA POWER DIESEL GENERATING SETS



275
1250 kVA

220
1000 kW



Jeneratör Seti Modeli	Power Pf.0,8 400 / 230 V - 50 Hz	
	Standby kVA	Prime kVA
APD 275 A	275	250
APD 275 C	275	250
APD 1000 C	1000	920
APD 1250 C	1250	-

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

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

ALTERNATOR

- Brushless, single bearing system, flexile disc, 4 poles
- Insulation class H
- Standard degree of protection IP21
- Self-exciting and self-regulating
- Impregnation with tropicalised epoxy varnish
- Solid stade Automatic Voltage Regulator

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
- Fuel gauge and drain plug on the fuel tank

CANOPY

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

QUALITY STANDARDS

- The generating sets have been designed to meet ISO 9001 Certificate.

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
- Front panel programming and also via PC software
- 132 x 64 pixel LCD display makes information easy to read
- 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
- Cos φ
- kVA, kVA_r,
- kWh, kVAh, kVA_rh
- 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



DSE 7320

DIESEL GENERATING SETS 400 / 230 V - 50Hz

GROUP
DIESEL ENGINE

Model			APD 275 A	APD 275 C	APD 1000 C	APD 1250 C
Power Pf. 0,8	Standby	kVA	275	275	1000	1250
		kW	220	220	800	1000
	Prime	kVA	250	250	920	-
		kW	200	200	736	-
Engine Make			Aksa	Cummins		
Model			A6CRX97TI	6LTAA8,9-G2	KTA38-G2A	KTA38-G9
Gross Engine Power Output		kW	252	240	895	1089
at rated rpm		HP	338	322	1200	1460
Aspiration and Cooling			Turbo Charge & IC		Turbo Charge & AC	
Total Displacement		Liter	9,726	8,9	38	
No. of Cylinders and Build			6 - Inline		12V	
Engine Speed		rpm	1500			
Bore ve Stroke		mmxmm	126 x 130	114 x 145	159 x 159	
Compression Ratio			16,5:1	16,6:1	14,5:1	13,9:1
Governor			Electronic			
Fuel Consumption at prime load		L/h.	58,2	53	191	256*
Fuel Tank Capacity		Liter	526	473	900	1500
Oil Capacity		Liter	24	27,6	114	135
Coolant Capacity (radiator and engine)		Liter	68	41,1	280	279
Radiator Cooling Air		m ³ /min.	N/A	475	846,8	573
Air intake - Engine		m ³ /min.	13,5	15,2	67,56	78,54
Exhaust Gas Flow		m ³ /min.	38,9	38	193,5	212,4
Exhaust Gas Temp. (Average)		°C	490	470	536	529

IC: Inter Cooler
AC: After Cooler

*Standby

Open Type

Dimensions (Length x Widht x Height)	2,9 x 1,4 x 2,05	2,6 x 1,25 x 1,7	4,4 x 2,06 x 2,4	4,6 x 1,85 x 2,3
Dry Weight	2645	1950	7450	8600

Sound Attenuated Type

Dimensions (Length x Widht x Height)	3,92 x 1,46 x 2,16	3,65 x 1,31 x 2,04	7,5 x 2,3 x 2,5	7,5 x 2,3 x 3,17
Dry Weight	3080	2600	11000	13100

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

Optional Equipments

Diesel Engine

- Remote radiator (APD 275A and 275 C except)
- Oil Heater

Alternator

- 3 pole output circuit breaker
- Anti-condensation heater

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
- Trailer
- Manual oil sump drain pump
- 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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