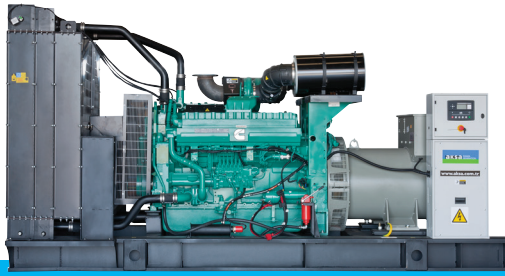




DIESEL POWERED GENERATING SETS

700
1410 kVA

560
1128 kW



Generating Set Model	Power Pf.0,8	
	400 / 230 V - 50 Hz	
	Standby	Prime
AC 700	700 kVA	638 kVA
AC 825	825	-
AC 880	880	800
AC 1100	1100	1000
AC 1100K	1100	1000
AC 1410	1410	1280

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

- CUMMINS heavy duty diesel engine
- Four cycle, water cooled, turbo charged
- Direct injection fuel system
- Electronic governor control system
- 4 valves per cylinder
- 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 pump
- Industrial capacity exhaust silencer and steel bellows
- Starter battery (with lead acid) including Rack and Cables
- Jacket water heater
- Manual for use 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
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Separate fuel tank (AC700 and AC825 have integral fuel tank)
- Lifting eyes allow is the transportation by a crane

ENCLOSURE

- All canopy parts are designed with modular principles
- All metal canopy parts are painted by electrostatic polyester powder paint
- Lockable doors on each side
- Acoustic fire retardant foam is covered in side the enclosure
- Aluminium internal floor (AK99,MS85 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

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)

Generator

- Volts (L-L / L-N)
- Currents (L1, L2, L3)
- Frequency (Hz)
- kW
- Cos φ
- kVA, kVAR,
- kWh, kVAh, kVAhR
- 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
DIESEL ENGINE

Model		AC 700	AC 825	AC 880	AC 1100	AC 1100K	AC 1410
Power	Standby	kVA 700	825	880	1100	1100	1410
		kW 560	660	704	880	880	1128
Pf. 0,8	Prime	kVA 638	-	800	1000	1000	1280
		kW 510	-	640	800	800	1024
Engine Make		Cummins					
Model		VTA28-G5	VTA 28-G6	QSK 23-G3	QST 30-G4	KTA38G5	KTA 50 G3
Gross Engine Power Output (at rated rpm)	kW	612	722	768	970	970	1227
	HP	820	968	1030	1300	1300	1645
Aspiration and Cooling		Turbo Charged & AC		Turbo Charged & IC	Turbo Charged + 2 Pump & 2 Loop	Turbo Charged & AC	
Total Displacement		Liter 28		23,15	30,48	37,8	50,3
No. of Cylinders and Build		12 V		6-Inline	12 V	12 V	16 V
Engine Speed		rpm 1500					
Bore ve Stroke		mmxmm 140 x 152		170 x 170	140 x 165	159 x 159	
Compression Ratio		13,1:1		16,0:1	14,0:1	13,9:1	
Governor Type		Electronic					
Fuel Consumption (L/h) Load	1 / 2	73	91	85	102	113	139
	3 / 4	104	133	121	151	161	199
	Full	140	180*	161	202	209	261
Fuel Tank Capacity		Liter 1000		1500	1500	1500	2000
Total Oil Capacity		Liter 83		103	154	135	177
Coolant Capacity (Engine and radiator)		Liter 170		120	342	350	415
Radiator Cooling Air		m ³ /min 651		626	1111	1489	1770
Air intake - Engine		m ³ /min 52,68		54,84	53,3	60,3	72,8
Exhaust Gas Flow		m ³ /min 122,88		132,72	147,8	178,8	198,4
Exhaust Gas Temperature		°C 507		489	543	575	525

 IC: Inter Cooler
 AC: After Cooler

*At standby power

Open Types

Dimensions (Length x Width x Height)	m	3,81 x 1,55 x 2,27	3,95 x 1,55 x 2,27	3,95 x 1,71 x 2,23	4,4 x 1,78 x 2,34	4,47 x 1,77 x 2,37	4,86 x 2,10 x 2,41
Dry Weight	kg.	5470	5610	5950	7350	8600	9900

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

Sound Attenuated Types

Canopy Model	MS 85	AK 90	AK 96	AK 98
Dimensions (Length x Width x Height)	m 5,3 x 1,61 x 2,66		6,5 x 2,2 x 2,35	
Dry Weight	kg. 7030	7170	9100	11000
Fuel Tank Capacity	Liter 1000	1100	1500	12250
				14000
				1900

Optional Equipments
Diesel Engine

- Oil heater
- Remote radiator (AC880 except)

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
- Remote communications

Accessories

- Bulk fuel tank
- Automatic or manual fuel filling system
- Fuel - water separator filter
- Low fuel level alarm
- Residential silencer
- Enclosure or soundproof container
- Trailer
- Tool kit for maintenance



Akxa 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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