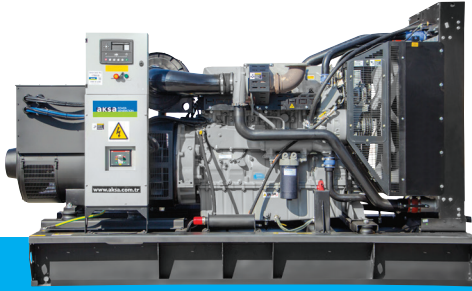


500
825 kVA

400
660 kW



Generating Set Model	Power P.f.0,8	
	400 / 230 V - 50 Hz	
	Standby kVA	Prime kVA
AP 500	500	455
AP 550	550	500
AP 660	660	600
AP 715	715	650
AP 825	825	750

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
- Base frame design incorporates an integral fuel tank except AP 825
- 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 except AP 825.
- 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)

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
- kVA, kVAR,
- kWh, kVAh, kVARh
- 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

Model			AP 500	AP 550	AP 660	AP 715	AP 825
Power P.f. 0,8	Standby	kVA	500	550	660	715	825
		kW	400	440	528	572	660
	Prime	kVA	455	500	600	650	750
		kW	364	400	480	520	600

DIESEL ENGINE

Engine Made			Perkins						
Model			2506A-E15TAG1	2506A-E15TAG2	2806-E18TAG1A	2806A-E18TAG2	4006-23TAG2A		
Gross Engine Power Output (at rated rpm)			kW		451	495	592,7	628	721
			HP		604,8	663,8	794,8	842,1	966,9
Aspiration and Cooling			Turbo Charged + IC						
Total Displacement			Liter		15,2	18,13		22,921	
No. of Cylinders and Build			6L						
Engine Speed			rpm					1500	
Bore and Stroke			mm x mm		137 x 171	145 x 183	145 x 183	160 x 190	
Compression Ratio			16:1	16:1	14,5:1	14,5:1	13,6:1		
Governor Type			Electronic						
Fuel Consumption (L/h) Load			1/2		50	53	61	66	83
			3/4		72	76	90	97	122
			Full		95	100	123	132	161
Fuel Tank Capacity (Canopy)			Liter		1150			1100	
Total Oil Capacity			Liter		62	62		113,4	
Coolant Capacity (Engine and radiator)			Liter		58	61		120	
Radiator Cooling Air			m ³ /dk.		722	702		870	
Air intake - Engine			m ³ /dk.		30,5	36,6	36	40	71
Exhaust Gas Flow			m ³ /dk.		81	98	104	114	180
Exhaust Gas Temperature			°C		550		571	553	430

IC: Inter Cooler
Open Types

Dimensions (Lenght x Width x Height)			m		3252 x 1550 x 2105	3450 x 1600 x 2178	3900 x 1690 x 2273	
Dry Weight			kg		3650	3880	-	5250

Sound Attenuated Types

Canopy Model			MS 80		MS 86 - AP660		AK91		
Dimensions (Lenght x Width x Height)			m		4810 x 1610 x 2615	5410 x 1864 x 2654	5920 x 2200 x (2353/3328)		
Dry Weight			kg		4800	4880	-	5850	7300

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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