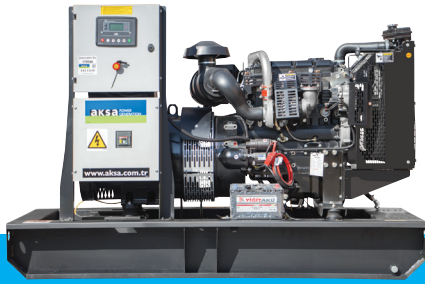


14,5
88 kVA

11,6
70,4 kW



Generating Set Model	Power P.f.0,8 400 / 230 V - 50 Hz	
	Standby kVA	Prime kVA
AP 15	14,5	13
AP 22	22	20
AP 33	33	30
AP 50	50	45
AP 72	72	66
AP 88	88	80

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
- Direct injection fuel system (AP 15 and AP 22 indirect)
- Mechanical governor control system
- 12 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
- 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.
- 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

Control, supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

Auto. Mains Failure Control Panel - P 602 Panel equipments

- Control with DSE, model 6020 module
- Static battery charger
- Emergency stop push button.

a) DSE 6020 Module Features

- Automatic control generating set start and stop
- 3 phase generator and mains voltage monitoring
- Transfer between mains and generator power
- Scrolling digital LCD display
- 4-line, 64x132 graphic display with LED backlight
- Front panel configuration of timers and alarm trip points
- Easy push button control
- STOP/RESET - MANUAL - AUTO - TEST - START
- LCD display Scroll push-button
- Page button
- Remote start
- Micro processor controled

b) Metering via LCD Display

- Generator Volt (L-L, L-N)
- Generator Ampere (L1,L2,L3)
- Generator Frequency (Hz)
- Configurable timing
- Event log(5) events
- Engine hours run

- Engine oil pressure (PSI)
- Engine speed RPM
- Engine cooling temperature (°C)
- Plant battery volts
- Mains Volts (L-L, L-N)
- Mains frequency (Hz)

c) Protections Shutdowns

- Under/Over Speed
- Fail to stop
- Over current electrical trip
- Engine low oil pressure
- High coolant temperature
- Fail to start
- Under/over generator frequency
- Under/over generator voltage
- Emergency stop
- Oil pressure sensor open
- Coolant temperature sensor open

Warning

- Under/Over generator voltage
- Over/under generator frequency
- Over/under speed
- Engine low oil pressure
- High coolant temperature
- Battery high/low voltage
- Charge alternator failure
- Fail to stop

d) LED Indications

- Mains available
- Mains on load
- Generator available
- Generator on load



DSE 6020

DIESEL GENERATING SETS
400 / 230 V - 50Hz
GROUP

Model			AP 15	AP 22	AP 33	AP 50	AP 72	AP 88		
Power P.f. 0,8	Standby	kVA	14,5	22	33	50	72	88		
		kW	11,6	17,6	26,4	40	57,6	70,4		
	Prime	kVA	13	20	30	45	66	80		
		kW	10,4	16	24	36	52,8	64		
Engine Made			Perkins							
Model			403A-15G1	404A-22G1	1103A-33G	1103A-33TG1	1104A-44TG1	1104A-44TG2		
Gross Engine Power Output (at rated rpm)			kW	13,5	20,6	31	46,5	65,6	80,7	
			HP	18,1	27,6	41,6	62,4	88,0	108,2	
Aspiration and Cooling			Naturally Aspirated			Turbo Charged				
Total Displacement			Liter	1,496	2,216	3,3	3,3	4,4		
No. of Cylinders and Build				3L	4L	3L		4L		
Engine Speed			rpm	1500						
Bore and Stroke			mm x mm	84 x 90	84 x 100	105 x 127				
Compression Ratio				22,5:1	23,3:1	19,25:1	17,25:1			
Governor Type			Mechanic							
Fuel Consumption (L/h)			Load	1/2	2,04	2,9	3,9	5,7	8,0	9,7
				3/4	2,79	4,0	5,4	8,2	11,2	14,0
				Full	3,67	5,3	7,1	10,7	14,8	18,7
Fuel Tank Capacity			Liter	50	38	70	100	240		
Total Oil Capacity			Liter	6,0	10,6	8,3	8,3	8		
Coolant Capacity (Engine and radiator)			Liter	6,0	7,0	10,2	10,2	13		
Radiator Cooling Air			m ³ /dk.	25,2	29,4	53,0	53	89		
Air intake - Engine			m ³ /dk.	1,1	1,45	2,15	3,1	4,2	5,14	
Exhaust Gas Flow			m ³ /dk.	2,9	3,94	5,8	7,7	11,4	13,3	
Exhaust Gas Temperature			°C	490	505	520	537	550	580	

DIESEL ENGINE
Open Types

Dimensions (Length x Width x Height)	m	1250 x 850 x 1017	1361 x 850 x 1041	1500 x 900 x 1205	1780 x 950 x 1206	1780 x 950 x 1220	2150 x 1050 x 1390
Dry Weight	kg	410	500	665	800	890	1020

Sound Attenuated Types

Canopy Model		AK 10	AK 11	AK 20	AK 30	AK 40
Dimensions (Length x Width x Height)	m	1850 x 910 x 1131	1955 x 910 x 1171	2100 x 960 x 1441	2470 x 1010 x 1461	3100 x 1113 x 1741
Dry Weight	kg	540	615	875	1030	1360

Optional Equipments

- Diesel Engine**
- Low water level
 - Electronic governor control
 - Oil heater
 - 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
- Manual oil drain pump
- Low fuel level alarm
- Residential silencer
- Enclosure or soundproof canopy
- Trailer
- 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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