



INTRODUCTION

Aksa power generation system, providing optimum performance, and reliability, for stationary standby, prime power, and continuous duty applications. All generator sets are factory build, and production tested.

Certificate

TS ISO 8528

CE

SZUTEST

2000/14/EC

General Characteristics

Model Name	APD 25 BD
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	AKSA (Powered by Baudouin) - A4CRW23G2-4M06G4D0
Alternator Made and Model	Aksa - AK 218
Control Panel Model	DSE 6120
Canopy	ACP 4

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
400/231	25	20.00	23	18.40	36.09

STANDBY RATING (ESP) : Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528-1. Overload is not allowed.

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PRIME RATING (PRP) : Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528-1. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation.

ENGINE SPECIFICATIONS

Engine		AKSA (Powered by Baudouin)	
Engine Model		A4CRW23G2-4M06G4D0	
NO. OF CYLINDERS AND BUILD		4 cylinders - in line	
BORE AND STROKE	mm	89 X 92	
TOTAL DISPLACEMENT	L	2.3	
Aspiration		Naturally Aspirated	
COMPRESSION RATIO		17.5:1	
RATED SPEED (RPM)	d/dk	1500	
OIL CAPACITY	L	11.5	
Standby Power (kW/HP)		25/33.5	
Prime Power		23/30.8	
Block Heater QTY			
		1	

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Block Heater Power (Watt)			
		500	
Fuel Type			
		Diesel	
Injection Type and System			
		Direct	
Type of Fuel Pump			
		Mechanical	
Governor System			
		Electronic	
Operating Voltage (Vdc)			
		12 Vdc	
Battery and Capacity (Qty/Ah)			
		1x55	
Charge Alternator (A)			
		35	
Cooling Method			

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	Water Cooled		
Cooling Fan Air Flow (m3/min)			
		63	
Coolant Capacity (engine only / with radiator) (lt)			
		5/8.6	
Air Filter			
		Dry Type	
Fuel Cons. Prime With %100 Load (lt/hr)			
		6.1	
Fuel Cons. Prime With %75 Load (lt/hr)			
		4.5	
Fuel Cons. Prime With %50 Load (lt/hr)			
		3.2	

ALTERNATOR SPECIFICATIONS


Manufacturer		Aksa
Alternator Made and Model		AK 218
Frequency (Hz)	Hz	50
Power (kVA)	kVA	22,5

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DESIGN		Brushless
VOLTAGE	V	400
Phase		3
A.V.R.		SX460
Voltage Regulation	(+/-)	1,5%
Insulation System		H
Protection		IP22
Rated Power Factor		0.8
WEIGHT COMP. GENERATOR (Kg)		128
COOLING AIR (m³/min)	m³	5,7

SIZE and WEIGHT

Open Type	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
	600	1840	892	1073	
CANOPY	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
ACP 4 	720	2094	950	1287	76

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STANDARD SPECIFICATIONS

- Water cooled, Diesel engine
- Radiator with mechanical fan
- Protective grille for rotating and hot parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine coolant heater
- Base frame design incorporates an integral fuel tank and anti-vibration isolators
- Flexible fuel connection hoses
- Single bearing, class H alternator
- Industrial exhaust silencer and steel bellows supplied separately(for open sets)
- Static battery charger
- Manual for application and installation

OPTIONAL EQUIPMENTS

ENGINE

- Fuel-Water Separator Filter
- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Main line circuit breaker

CONTROL SYSTEM

- Automatic synchronising and power control system (multi gen-set Parallel)
- Transition synchronization with mains
- Remote annunciator panel
- Remote relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charge Ammeter

TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor
- Three or four pole motor operated circuit breaker

OTHER ACCESSORIES

- Main Fuel Tank
- Automatic or manual fuel filling system
- Manual oil drain pump
- Electrical oil drain pump
- Low and high fuel level alarm
- Residential silencer
- Enclosure: weater protective or sound attenuated
- Duct adapter (on radiator)
- Inlet and outlet motorised louvers
- Inlet and outlet acoustic baffles
- Trailer

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- ? Frequency.
- ? Gen. Set ready.
- ? Gen. Set enabled.

MAINS

- ? Mains ready.
- ? Mains enabled.

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WARNING

- ? Charge failure.
- ? Battery Low/High voltage.
- ? Fail to stop.
- ? Low /High generator voltage.
- ? Under /Over generator frequency.
- ? Over /Under speed.
- ? Low oil pressure.
- ? High coolant temperature.

SHUT DOWNS

- ? Fail to start.
- ? Emergency stop.
- ? Low oil pressure.
- ? High coolant temperature.
- ? Over /Under speed.
- ? Under/over generator frequency.
- ? Under/over generator voltage.
- ? Oil pressure sensor open.
- ? Coolant temperature sensor open.

ELECTRICAL TRIP

- ? Generator over current.

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- ? Flexible sensor can be controlled with temperature, pressure, percentage (warning/shutdown/electrical trip)
- ? Local setting parameters and monitoring from PC to control module with USB connection (max 6 mt).

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- ? Electrical Safety / EMC compatibility
- ? BS EN 60950 Electrical business equipment.
- ? BS EN 61000-6-2 EMC immunity standard.
- ? BS EN 61000-6-4 EMC emission standard.

STATIC BATTERY CHARGER

- ? Battery charger is manufactured with switching-mode and SMD technology and ?t has high efficiency.
- ? Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 13,8 V for 12 volt and 27,6 V for 24 V . Input 198 - 264 volt AC.
- ? The charger is fitted with a protection diode across the output.
- ? Connect charge fail relay coil between positive output and CF output.
- ? They are equipped with RFI filter to reduce electrical noise radiated from the device.
- ? Galvanically isolated input and output typically 4kV for high reliability.

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Sound-attenuated and weather-protective Enclosures Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet even the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

STANDARD SPECIFICATIONS

- Compact footprint, low profile design.
- Enclosure, generator set, exhaust system and fuel tank are pre-ssembled, pre-integrated and shipped as one package
- Body made from steel components treated with polyester powder coating
- Fire retardant foam insulation
- Easy access to all service points
- Exhaust system inside canopy
- Large doors on each side
- Control panel viewing window in a lockable access door
- Emergency stop push button mounted on enclosure exterior
- Cooling fan and battery charging alternator fully guarded
- Fuel fill and battery can only be reached via lockable access doors.
- Lifting points on the top of canopy and base frame
- Customer options available to meet your applications needs.
- Aksa makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been approved by the notified body Szutest

CANOPY MODEL		ACP 4
WIDTH	mm.	950
LENGTH	mm.	2094
HEIGHT	mm.	1287
TANK CAPACITY (lt.)	Lt.	76

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