



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 1650 BD
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	BAUDOIN - 12M33G1650/5
Alternator Made and Model	Aksa - AK 71250
Control Panel Model	DSE 7320
Canopy	AK 96-AP1400

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.


3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
400/231	1650	1320.00	1550	1240.00	2381.64

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.

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		BAUDOUIIN
Engine Model		12M33G1650/5
NO. OF CYLINDERS AND BUILD		12 cylinders - V type
BORE AND STROKE	mm	150 X 185
TOTAL DISPLACEMENT	L	39,2
Aspiration		Turbo Charged and Air to Air AfterCooled

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COMPRESSION RATIO		15:1	
RATED SPEED (RPM)	d/dk	1500	
OIL CAPACITY	L	160	
Standby Power (kW/HP)		1450/1944	
Prime Power		1350/1810	
Block Heater QTY			
		2	
Block Heater Power (Watt)			
		3000	
Fuel Type			
		Diesel	
Injection Type and System			
		Direct	
Type of Fuel Pump			
		HPCR (High Pressure Common Rail)	



Governor System			
		ECU	
Operating Voltage (Vdc)			
		24 Vdc	
Battery and Capacity (Qty/Ah)			
		4x143	
Charge Alternator (A)			
		55	
Cooling Method			
		Water Cooled	
Cooling Fan Air Flow (m3/min)			
		1380	
Coolant Capacity (engine only / with radiator) (lt)			
		83/159	
Air Filter			
		Dry Type	



Fuel Cons. Prime With %100 Load (lt/hr)			
		324	
Fuel Cons. Prime With %75 Load (lt/hr)			
		234.2	
Fuel Cons. Prime With %50 Load (lt/hr)			
		156.1	



ALTERNATOR SPECIFICATIONS

Manufacturer		Aksa
Alternator Made and Model		AK 71250
Frequency (Hz)	Hz	50
Power (kVA)	kVA	1563
DESIGN		Brushless
VOLTAGE	V	400
Phase		3



A.V.R.		MX341
Voltage Regulation	(+/-)	1
Insulation System		H
Protection		IP22
Rated Power Factor		0.8
WEIGHT COMP. GENERATOR (Kg)		3018
COOLING AIR (m³/min)	m³	161.4

SIZE and WEIGHT

Open Type	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
		4830	1850	2544	2000
CANOPY	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
AK 96-AP1400 		7500	2300	2495	1900

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STANDART 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
Steel base frame and anti-vibration isolators
Spare external fuel tank (open set)
Flexible fuel connection hoses
Single bearing, class H alternator
Industrial exhaust silencer and steel bellows supplied separately
Static battery charger
Manual for application and installation
Generators Sets' voltage and frequency regulation comply with ISO 8528-5

OPTIONAL EQUIPMENTS

ENGINE

- Fuel-Water Seperator 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
- Tool kit for maintenance
- Automatic transfer switch

INTRODUCTION

Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet event 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.

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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		AK 96-AP1400
WIDTH	mm.	2300
LENGTH	mm.	7500
HEIGHT	mm.	2495
TANK CAPACITY (lt.)	Lt.	1900