



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

ISO 14001-2004

TS ISO 8528

TS ISO 9001-2008

CE

2000/14/EC

General Characteristics

Model Name	AP 450
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	PERKINS - 2206A-E13TAG3
Alternator Made and Model	Mecc Alte - ECO 40-2S/4 C
Control Panel Model	DSE 7320
Canopy	MS 80

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	450	360.00	410	328.00	649.54

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		PERKINS
Engine Model		2206A-E13TAG3
NO. OF CYLINDERS AND BUILD		6 cylinders - in line
BORE AND STROKE	mm	130 X 157
TOTAL DISPLACEMENT	L	12.5
Aspiration		Turbo Charged and Charge Air Cooled

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COMPRESSION RATIO		16.3:1	
RATED SPEED (RPM)	d/dk	1500	
OIL CAPACITY	L	40	
Standby Power (kW/HP)		412.5/552,94	
Prime Power		368.4/493,83	
Block Heater QTY			
		1	
Block Heater Power (Watt)			
		3000	
Fuel Type			
		Diesel	
Injection Type and System			
		Direct	
Type of Fuel Pump			
		MEUI	



Governor System			
		ECM	
Operating Voltage (Vdc)			
		24 Vdc	
Battery and Capacity (Qty/Ah)			
		2x120	
Charge Alternator (A)			
		70	
Cooling Method			
		Water Cooled	
Cooling Fan Air Flow (m3/min)			
		563	
Coolant Capacity (engine only / with radiator) (lt)			
		/51,4	
Air Filter			
		Dry Type	



Fuel Cons. Prime With %100 Load (lt/hr)			
		81	
Fuel Cons. Prime With %75 Load (lt/hr)			
		62	
Fuel Cons. Prime With %50 Load (lt/hr)			
		42	

ALTERNATOR SPECIFICATIONS


Manufacturer		Mecc Alte
Alternator Made and Model		ECO 40-2S/4 C
Frequency (Hz)	Hz	50
Power (kVA)	kVA	450
DESIGN		4 Pole, Brushless
VOLTAGE	V	400
Phase		3

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A.V.R.		DER1
Voltage Regulation	(+/-)	0.5
Insulation System		H
Protection		IP23
Rated Power Factor		0.8
WEIGHT COMP. GENERATOR (Kg)		1131
COOLING AIR (m³/min)	m³	54

SIZE and WEIGHT

Open Type	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
	3260	3205	1550	2105	850
CANOPY	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)

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MS 80 	4400	4807	1606	2485	850
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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
- 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 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

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- Three or 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
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Supplied with oil and coolant - 30 °C

STANDARD SPECIFICATIONS

Compact footprint, low profile design.

Enclosure, generator set, exhaust system and fuel tank are pre-assembled, 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 application's 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		MS 80
WIDTH	mm.	1606

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LENGTH	mm.	4807
HEIGHT	mm.	2485
TANK CAPACITY (lt.)	Lt.	850

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.