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

SZUTEST

2000/14/EC

General Characteristics

Model Name	AC 3000
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	CUMMINS - QSK78-G9
Alternator Made and Model	Mecc Alte - ECO 46 -VL/4 A
Control Panel Model	DSE 7320

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Canopy	AK 101

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
400/231	3000	2400.00	2750	2200.00	4330.25

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 perod of operation.

ENGINE SPECIFICATIONS

Engine		CUMMINS
Engine Model		QSK78-G9
NO. OF CYLINDERS AND BUILD		18 cylinders - V type
BORE AND STROKE	**mm**	170 X 190
TOTAL DISPLACEMENT	**L**	77.6

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Aspiration		Turbo Charged and AfterCooled
COMPRESSION RATIO		15.5:1
RATED SPEED (RPM)	**d/dk**	1500
OIL CAPACITY	**L**	466
Standby Power (kW/HP)		2539/3404
Prime Power		2304/3088
Block Heater QTY		2
Block Heater Power (Watt)		3000
Fuel Type		Diesel
Injection Type and System		Direct
Type of Fuel Pump		

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	Cummins HPI-PT		
Governor System			
		Electronic	
Operating Voltage (Vdc)			
		24 Vdc	
Battery and Capacity (Qty/Ah)			
		6x143	
Charge Alternator (A)			
		55	
Cooling Method			
		Water Cooled	
Coolant Capacity (engine only / with radiator) (lt)			
		166.6/	
Air Filter			
		Dry Type	
Fuel Cons. Prime With %100 Load (lt/hr)			

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	528		
Fuel Cons. Prime With %75 Load (lt/hr)			
		406	
Fuel Cons. Prime With %50 Load (lt/hr)			
		291	

ALTERNATOR SPECIFICATIONS

Manufacturer		Mecc Alte
Alternator Made and Model		ECO 46 -VL/4 A
Frequency (Hz)	**Hz**	50
Power (kVA)	**kVA**	2800
DESIGN		Brushless
VOLTAGE	**V**	400
Phase		3
A.V.R.		DER1

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Voltage Regulation	**(+/-)**	0.5
Insulation System		H
Protection		IP23
Rated Power Factor		0.8
WEIGHT COMP. GENERATOR (Kg)		5120

SIZE and WEIGHT

Open Type	**DRY WEIGHT (kg.) (kg.)**	**LENGTH (mm.)**	**WIDTH (mm.)**	**HEIGHT (mm.)**	**TANK CAPACITY (lt.) (Lt.)**
Image not found or type unknown	16300	7421	2637	4736	2500
CANOPY	**DRY WEIGHT (kg.) (kg.)**	**LENGTH (mm.)**	**WIDTH (mm.)**	**HEIGHT (mm.)**	**TANK CAPACITY (lt.) (Lt.)**
AK 101	25000	11000	2800	3888	-

STANDART SPECIFICATIONS

Water cooled diesel engine
Remote Radiator with electric fan

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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
- Electronic governor control
- Fuel-Water Seperator Filter
- Low water level alarm
- Oil heater

ALTERNATOR
- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Single Phase (4 lead)
- Main line circuit breaker

CONTROL SYSTEM
- Automatic synchronising and power control system (multi gen-set Parallel)
- Paralel system with mains.
- 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

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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
- Trailer
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Double wall chassis
- Supplied with oil and coolant - 30 °C
- Battery isolating switch
- Battery heater
- Automatic transfer switch

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