



## 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

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

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


**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 period of operation.

### ENGINE SPECIFICATIONS

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

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



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



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


**ALTERNATOR SPECIFICATIONS**

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



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

### SIZE and WEIGHT

<b>Open Type</b>	<b>DRY WEIGHT (kg.) (kg.)</b>	<b>LENGTH (mm.)</b>	<b>WIDTH (mm.)</b>	<b>HEIGHT (mm.)</b>	<b>TANK CAPACITY (lt.) (Lt.)</b>
	16300	7421	2637	4736	2500
<b>CANOPY</b>	<b>DRY WEIGHT (kg.) (kg.)</b>	<b>LENGTH (mm.)</b>	<b>WIDTH (mm.)</b>	<b>HEIGHT (mm.)</b>	<b>TANK CAPACITY (lt.) (Lt.)</b>
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 Separator 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



- 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