



## 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

<b>Model Name</b>	AC 1020-6
<b>Frequency (Hz)</b>	60
<b>Fuel Type</b>	Diesel
<b>Engine Made and Model</b>	CUMMINS - QSK23-G3 60 Hz
<b>Alternator Made and Model</b>	Mecc Alte - ECO 43-1S/4 A - 60Hz
<b>Control Panel Model</b>	DSE 7320
<b>Canopy</b>	AK 90


**3 Phase, 50 Hz, PF 0.8**

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
480/277	1020	816.00	920	736.00	1226.91
380/220	900	720.00	820	656.00	1367.45

**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>		QSK23-G3 60 Hz
<b>NO. OF CYLINDERS AND BUILD</b>		6 cylinders - in line
<b>BORE AND STROKE</b>	<b>mm</b>	170 X 170
<b>TOTAL DISPLACEMENT</b>	<b>L</b>	23.15

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<b>Aspiration</b>		Turbo Charged and Charge Air Cooled	
<b>COMPRESSION RATIO</b>		16.0:1	
<b>RATED SPEED (RPM)</b>	<b>d/dk</b>	1800	
<b>OIL CAPACITY</b>	<b>L</b>	103	
<b>Standby Power (kW/HP)</b>		895/1200	
<b>Prime Power</b>		809/1085	
<b>Block Heater QTY</b>			
		1	
<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>			
		2x143	
<b>Charge Alternator (A)</b>			
		35	
<b>Cooling Method</b>			
		Water Cooled	
<b>Cooling Fan Air Flow (m3/min)</b>			
		625,8	
<b>Coolant Capacity (engine only / with radiator) (lt)</b>			
		46,5/120	
<b>Air Filter</b>			



	Dry Type		
<b>Fuel Cons. Prime With %100 Load (lt/hr)</b>			
		189	
<b>Fuel Cons. Prime With %75 Load (lt/hr)</b>			
		139	
<b>Fuel Cons. Prime With %50 Load (lt/hr)</b>			
		97	

### ALTERNATOR SPECIFICATIONS


<b>Manufacturer</b>		Mecc Alte
<b>Alternator Made and Model</b>		ECO 43-1S/4 A - 60Hz
<b>Frequency (Hz)</b>	<b>Hz</b>	60
<b>Power (kVA)</b>	<b>kVA</b>	960
<b>DESIGN</b>		4 Pole, Brushless
<b>VOLTAGE</b>	<b>V</b>	480

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<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>		1870
<b>COOLING AIR (m<sup>3</sup>/min)</b>	<b>m<sup>3</sup></b>	108

**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>
	5950	4121	1705	2253	1500
<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>

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AK 90 	9300	6500	2200	2350	1100
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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 (for open sets)
- Static battery charger
- Manual for application and installation

### OPTIONAL EQUIPMENTS

#### ENGINE

- Oil heater
- Fuel-Water Separator Filter

#### ALTERNATOR

- Main line circuit breaker
- Over sized alternator
- Anti-Condensation Heater

#### TRANSFER SWITCH

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

#### OTHER ACCESSORIES

- Tool kit for maintenance
- Trailer
- Inlet and outlet acoustic baffles
- Automatic transfer switch
- Main Fuel Tank



- Supplied with oil and coolant - 30 °C
- Inlet and outlet motorised louvers
- Low and high fuel level alarm
- Electrical oil drain pump
- Automatic or manual fuel filling system
- Duct adapter ( on radiator)
- Enclosure: weater protective or sound attenuated
- Residential silencer

**CONTROL SYSTEM**

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