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	AC 1410
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	CUMMINS - KTA50-G3
Alternator Made and Model	Mecc Alte - ECO 43-2L/4 A
Control Panel Model	DSE 7320
Canopy	AK 98

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
400/231	1410	1128.0	1280	1024.0	2035.22

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		KTA50-G3
NO. OF CYLINDERS AND BUILD		16 cylinders - V type
BORE AND STROKE	**mm**	159 X 159
TOTAL DISPLACEMENT	**L**	50.3
Aspiration		Turbo Charged and AfterCooled

COMPRESSION RATIO		13.9:1
RATED SPEED (RPM)	**d/dk**	1500
OIL CAPACITY	**L**	177
Standby Power (kW/HP)		1227/1645
Prime Power		1097/1470
Block Heater QTY		2
Block Heater Power (Watt)		3000
Fuel Type		Diesel
Injection Type and System		Direct
Type of Fuel Pump		Cummins PT

Governor System		Electronic	
Operating Voltage (Vdc)		24 Vdc	
Battery and Capacity (Qty/Ah)		4x143	
Charge Alternator (A)		35	
Cooling Method		Water Cooled	
Cooling Fan Air Flow (m3/min)		1770	
Coolant Capacity (engine only / with radiator) (lt)		161/415	
Air Filter		Dry Type	

Fuel Cons. Prime With %100 Load (lt/hr)			
		261	
Fuel Cons. Prime With %75 Load (lt/hr)			
		199	
Fuel Cons. Prime With %50 Load (lt/hr)			
		139	

ALTERNATOR SPECIFICATIONS

Manufacturer		Mecc Alte
Alternator Made and Model		ECO 43-2L/4 A
Frequency (Hz)	**Hz**	50
Power (kVA)	**kVA**	1300
DESIGN		4 Pole, Brushless
VOLTAGE	**V**	400
Phase		3

A.V.R.		DER1
Voltage Regulation	**(+/-)**	0.5
Insulation System		H
Protection		IP23
Rated Power Factor		0.8
WEIGHT COMP. GENERATOR (Kg)		2660
COOLING AIR (m^3/min)	**m^3**	90

SIZE and WEIGHT

Open Type	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
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CANOPY	**DRY WEIGHT (kg.) (kg.)**	**LENGTH (mm.)**	**WIDTH (mm.)**	**HEIGHT (mm.)**	**TANK CAPACITY (lt.) (Lt.)**

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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
• Remote Radiator Cooling
• 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)
• Paralel system with mains.

- Transition synchronization with mains
- Remote annunciator panel
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charge Ammeter

TRANSFER SWITCH
- 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
- 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