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 550
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	CUMMINS - QSX15-G8
Alternator Made and Model	Mecc Alte - ECO 40-3S/4 C
Control Panel Model	DSE 7320
Canopy	MS 80

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
400/231	550	440.0	500	400.0	793.88

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		QSX15-G8
NO. OF CYLINDERS AND BUILD		6 cylinders - in line
BORE AND STROKE	**mm**	137 X 169
TOTAL DISPLACEMENT	**L**	14.9
Aspiration		Turbo Charged and Charge Air Cooled

COMPRESSION RATIO		17.2:1
RATED SPEED (RPM)	**d/dk**	1500
OIL CAPACITY	**L**	90.8
Standby Power (kW/HP)		500/670
Prime Power		444/595
Block Heater QTY		1
Block Heater Power (Watt)		3000
Fuel Type		Diesel
Injection Type and System		XPI
Type of Fuel Pump		HPCR (High Pressure Common Rail)

Governor System		ECM	
Operating Voltage (Vdc)		24 Vdc	
Battery and Capacity (Qty/Ah)		2x120	
Charge Alternator (A)		30	
Cooling Method		Water Cooled	
Coolant Capacity (engine only / with radiator) (lt)		33/66	
Air Filter		Dry Type	
Fuel Cons. Prime With %100 Load (lt/hr)		101	

Fuel Cons. Prime With %75 Load (lt/hr)			
		80	
Fuel Cons. Prime With %50 Load (lt/hr)			
		56	

ALTERNATOR SPECIFICATIONS

Manufacturer		Mecc Alte
Alternator Made and Model		ECO 40-3S/4 C
Frequency (Hz)	**Hz**	50
Power (kVA)	**kVA**	500
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)		1534
COOLING AIR (m^3/min)	**m^3**	54

SIZE and WEIGHT

Open Type	**DRY WEIGHT (kg.) (kg.)**	**LENGTH (mm.)**	**WIDTH (mm.)**	**HEIGHT (mm.)**	**TANK CAPACITY (lt.) (Lt.)**
	3850	3205	1550	2101	850
CANOPY	**DRY WEIGHT (kg.) (kg.)**	**LENGTH (mm.)**	**WIDTH (mm.)**	**HEIGHT (mm.)**	**TANK CAPACITY (lt.) (Lt.)**
MS 80 	4860	4807	1606	2485	850

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
Anti-condensation heater
High lube oil temperature
Fuel level monitoring
Residential silencer (1x8")
Alarm buzzer for safeties
Industrial exhaust silencer and steel bellows supplied separately(for open sets)
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.
- Remote annunciator panel
- Remote relay output
- 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
- 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

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
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.