

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

Engine		CUMMINS
Engine Model		QSK23-G3 60 Hz
NO. OF CYLINDERS AND BUILD		6 cylinders - in line
BORE AND STROKE	mm	170 X 170
TOTAL DISPLACEMENT	L	23.15



Aspiration		Turbo Charged and Charge Air Cooled	
COMPRESSION RATIO		16.0:1	
RATED SPEED (RPM)	d/dk	1800	
OIL CAPACITY	L	103	
Standby Power (kW/HP)		895/1200	
Prime Power		809/1085	
Block Heater QTY			
		1	
Block Heater Power (Watt)			
		3000	
Fuel Type			
		Diesel	
Injection Type and System			
		Direct	
Type of Fuel Pump			



	Cummins HPI-PT		
Governor System			
		Electronic	
Operating Voltage (Vdc)			
		24 Vdc	
Battery and Capacity (Qty/Ah)			
		2x143	
Charge Alternator (A)			
		35	
Cooling Method			
		Water Cooled	
Cooling Fan Air Flow (m3/min)			
		625,8	
Coolant Capacity (engine only / with radiator) (lt)			
		46,5/120	
Air Filter			



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

ALTERNATOR SPECIFICATIONS

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

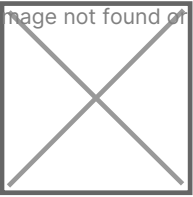


Phase		3
A.V.R.		DER1
Voltage Regulation	(+/-)	0.5
Insulation System		H
Protection		IP23
Rated Power Factor		0.8
WEIGHT COMP. GENERATOR (Kg)		1870
COOLING AIR (m³/min)	m³	108

SIZE and WEIGHT

Open Type	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
	5950	4121	1705	2253	1500
CANOPY	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)



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	9300	6500	2200	2350	1100

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 Seperator 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

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