



## 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 1675
<b>Frequency (Hz)</b>	50
<b>Fuel Type</b>	Diesel
<b>Engine Made and Model</b>	CUMMINS - KTA50-GS8
<b>Alternator Made and Model</b>	Mecc Alte - ECO 46-1.5S/4 A
<b>Control Panel Model</b>	DSE 7320
<b>Canopy</b>	AK 98-AP1650

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

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
400/231	1675	1340.0	1500	1200.00	2417.73

**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>		KTA50-GS8
<b>NO. OF CYLINDERS AND BUILD</b>		16 cylinders - V type
<b>BORE AND STROKE</b>	<b>mm</b>	159 X 159
<b>TOTAL DISPLACEMENT</b>	<b>L</b>	50.3
<b>Aspiration</b>		Turbo Charged and AfterCooled



<b>COMPRESSION RATIO</b>		14.9:1	
<b>RATED SPEED (RPM)</b>	<b>d/dk</b>	1500	
<b>OIL CAPACITY</b>	<b>L</b>	204	
<b>Standby Power (kW/HP)</b>		1429/1915	
<b>Prime Power</b>		1287/1725	
<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 PT	



<b>Governor System</b>			
		Electronic	
<b>Operating Voltage (Vdc)</b>			
		24 Vdc	
<b>Battery and Capacity (Qty/Ah)</b>			
		4x143	
<b>Charge Alternator (A)</b>			
		35	
<b>Cooling Method</b>			
		Water Cooled	
<b>Cooling Fan Air Flow (m3/min)</b>			
		2631	
<b>Coolant Capacity (engine only / with radiator) (lt)</b>			
		165/420	
<b>Air Filter</b>			
		Dry Type	



<b>Fuel Cons. Prime With %100 Load (lt/hr)</b>			
			309
<b>Fuel Cons. Prime With %75 Load (lt/hr)</b>			
			238
<b>Fuel Cons. Prime With %50 Load (lt/hr)</b>			
			167

**ALTERNATOR SPECIFICATIONS**

<b>Manufacturer</b>		Mecc Alte
<b>Alternator Made and Model</b>		ECO 46-1.5S/4 A
<b>Frequency (Hz)</b>	<b>Hz</b>	50
<b>Power (kVA)</b>	<b>kVA</b>	1650
<b>DESIGN</b>		Brushless
<b>VOLTAGE</b>	<b>V</b>	400
<b>Phase</b>		3

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<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>		3380
<b>COOLING AIR (m<sup>3</sup>/min)</b>	<b>m<sup>3</sup></b>	135

**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>
	10400	5454	1950	2446	2000
<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 98-AP1650	15100	9000	2270	2648	1900

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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
- Remote relay output
- 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
- 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
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Double wall chassis
- Supplied with oil and coolant - 30 °C
- Automatic transfer switch

**INTRODUCTION****STANDARD SPECIFICATIONS**

<b>CANOPY MODEL</b>		AK 98-AP1650
<b>WIDTH</b>	<b>mm.</b>	2270
<b>LENGTH</b>	<b>mm.</b>	9000
<b>HEIGHT</b>	<b>mm.</b>	2648
<b>TANK CAPACITY (lt.)</b>	<b>Lt.</b>	1900

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