INTRODUCTION

Aksa power generation system, providing optimum performance, and reliability, for stationary standby applications. All generator sets are factory build, and production tested.

Certificate

TS ISO 8528

CE

SZUTEST

2000/14/EC

General Characteristics

Model Name	APD 475 C
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	CUMMINS - 6ZTAA13-G2
Alternator Made and Model	Aksa - AK 6371
Control Panel Model	DSE 7320
Canopy	MS 70 CK

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
400/231	475	380.00	440	352.00	685.62

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		6ZTAA13-G2
NO. OF CYLINDERS AND BUILD		6 cylinders - in line
BORE AND STROKE	**mm**	130 X 163
TOTAL DISPLACEMENT	**L**	13
Aspiration		Turbo Charged and Charge Air Cooled

COMPRESSION RATIO		17:1
RATED SPEED (RPM)	**d/dk**	1500
OIL CAPACITY	**L**	45.42
Standby Power (kW/HP)		415/557
Prime Power		390/523
Block Heater QTY		1
Block Heater Power (Watt)		4000
Fuel Type		Diesel
Injection Type and System		Direct Injection
Type of Fuel Pump		BYC PB

Governor System	Electronic
Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	2x120
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	618
Coolant Capacity (engine only / with radiator) (lt)	23.1/86.1
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	89.1

Fuel Cons. Prime With %75 Load (lt/hr)			
		65.1	
Fuel Cons. Prime With %50 Load (lt/hr)			
		43.2	

ALTERNATOR SPECIFICATIONS

Manufacturer		Aksa
Alternator Made and Model		AK 6371
Frequency (Hz)	**Hz**	50
Power (kVA)	**kVA**	464
DESIGN		Brushless
VOLTAGE	**V**	400
Phase		3
A.V.R.		SX440
Voltage Regulation	**(+/-)**	1

Insulation System		H
Protection		IP23
Rated Power Factor		0.8
WEIGHT COMP. GENERATOR (Kg)		1263
COOLING AIR (m^3/min)	**m^3**	62.1

SIZE and WEIGHT

Open Type	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
Image not found or type unknown	3440	3180	1550	2181	700
CANOPY	**DRY WEIGHT (kg.) (kg.)**	**LENGTH (mm.)**	**WIDTH (mm.)**	**HEIGHT (mm.)**	**TANK CAPACITY (lt.) (Lt.)**
MS 70 CK Image not found or type unknown	4340	4463	1606	2559	700

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
Industrial exhaust silencer and steel bellows supplied separately(for open sets)
Static battery charger
Manual for application and installation

OPTIONAL EQUIPMENTS

ENGINE

- Fuel-Water Seperator Filter
- Low water level alarm
- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Main line circuit breaker

CONTROL SYSTEM

- Earth fault, single set

- Charge Ammeter

TRANSFER SWITCH

- Three Pole Contactor
- 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
- Enclosure: weater protective or sound attenuated
- Trailer
- Tool kit for maintenance