



## 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

TS ISO 9001-2008

CE

SZUTEST

2000/14/EC

### General Characteristics

<b>Model Name</b>	APD 1650 M
<b>Frequency (Hz)</b>	50
<b>Fuel Type</b>	Diesel
<b>Engine Made and Model</b>	MITSUBISHI - S12R-PTAA2
<b>Alternator Made and Model</b>	Mecc Alte - ECO 46-1S/4 A
<b>Control Panel Model</b>	DSE 7320
<b>Canopy</b>	AK 99 - External Removable Silencer

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.


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

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
400/231	1650	1320.0	1500	1200.0	2381.64

**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>		MITSUBISHI
<b>Engine Model</b>		S12R-PTAA2
<b>NO. OF CYLINDERS AND BUILD</b>		12 cylinders - V type
<b>BORE AND STROKE</b>	<b>mm</b>	170 X 180
<b>TOTAL DISPLACEMENT</b>	<b>L</b>	49.03
<b>Aspiration</b>		Turbo Charged and AfterCooled

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<b>COMPRESSION RATIO</b>		13.5:1	
<b>RATED SPEED (RPM)</b>	<b>d/dk</b>	1500	
<b>OIL CAPACITY</b>	<b>L</b>	180	
<b>Standby Power (kW/HP)</b>		1441/1932	
<b>Prime Power</b>		1314/1761	
<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>			
		Mitsubishi PS6x2 (In-Line)	



<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>			
		30	
<b>Cooling Method</b>			
		Water Cooled	
<b>Cooling Fan Air Flow (m3/min)</b>			
		1800	
<b>Coolant Capacity (engine only / with radiator) (lt)</b>			
		33/317	
<b>Air Filter</b>			
		Dry Type	



<b>Fuel Cons. Prime With %100 Load (lt/hr)</b>			
			308
<b>Fuel Cons. Prime With %75 Load (lt/hr)</b>			
			234.2
<b>Fuel Cons. Prime With %50 Load (lt/hr)</b>			
			163.3


### ALTERNATOR SPECIFICATIONS

<b>Manufacturer</b>		Mecc Alte
<b>Alternator Made and Model</b>		ECO 46-1S/4 A
<b>Frequency (Hz)</b>	<b>Hz</b>	50
<b>Power (kVA)</b>	<b>kVA</b>	1500
<b>DESIGN</b>		Brushless
<b>VOLTAGE</b>	<b>V</b>	400
<b>Phase</b>		3



<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>		3010
<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>
	11400	4970	2212	3022	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 99 - External Removable Silencer



15450

9000

2800

3307

2200

### 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

- Fuel-Water Seperator Filter
- Oil heater

#### ALTERNATOR

- Anti-Condensation Heater
- 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 relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set

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- 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

**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.

**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 the 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 are fully guarded

Fuel fill and battery can only be reached via lockable access doors.

Lifting points on the top of the canopy and base frame

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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

<b>CANOPY MODEL</b>		AK 99 - External Removable Silencer
<b>WIDTH</b>	<b>mm.</b>	2800
<b>LENGTH</b>	<b>mm.</b>	9000
<b>HEIGHT</b>	<b>mm.</b>	3307
<b>TANK CAPACITY (lt.)</b>	<b>Lt.</b>	2200