



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

Model Name	AP 1650
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	PERKINS - 4012-46TAG2A
Alternator Made and Model	Mecc Alte - ECO 46-1S/4 A
Control Panel Model	DSE 7320
Canopy	AK 98

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

Engine		PERKINS
Engine Model		4012-46TAG2A
NO. OF CYLINDERS AND BUILD		12 cylinders - V type
BORE AND STROKE	mm	160 X 190
TOTAL DISPLACEMENT	L	45.842
Aspiration		Turbo Charged



COMPRESSION RATIO		13.0:1	
RATED SPEED (RPM)	d/dk	1500	
OIL CAPACITY	L	177	
Standby Power (kW/HP)		1459/1957	
Prime Power		1331/1785	
Block Heater QTY			
		2	
Block Heater Power (Watt)			
		3000	
Fuel Type			
		Diesel	
Injection Type and System			
		Direct	
Type of Fuel Pump			
		Mechanical	



Governor System			
		Electronic	
Operating Voltage (Vdc)			
		24 Vdc	
Battery and Capacity (Qty/Ah)			
		4x143	
Charge Alternator (A)			
		55	
Cooling Method			
		Water Cooled	
Cooling Fan Air Flow (m3/min)			
		1762	
Coolant Capacity (engine only / with radiator) (lt)			
		/195.7	
Air Filter			
		Dry Type	



Fuel Cons. Prime With %100 Load (lt/hr)			
		309	
Fuel Cons. Prime With %75 Load (lt/hr)			
		236	
Fuel Cons. Prime With %50 Load (lt/hr)			
		164	

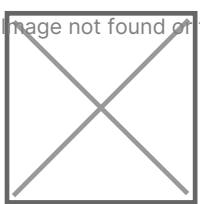
ALTERNATOR SPECIFICATIONS

Manufacturer		Mecc Alte
Alternator Made and Model		ECO 46-1S/4 A
Frequency (Hz)	Hz	50
Power (kVA)	kVA	1500
DESIGN		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)		3010
COOLING AIR (m³/min)	m³	135

SIZE and WEIGHT

Open Type	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)
	10200	4920	2151	2438	2000
CANOPY	DRY WEIGHT (kg.) (kg.)	LENGTH (mm.)	WIDTH (mm.)	HEIGHT (mm.)	TANK CAPACITY (lt.) (Lt.)



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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

OPTIONAL EQUIPMENTS

ENGINE

- 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)
- Transition synchronization with mains
- Remote annunciator panel
- Remote relay output
- Alarm output relays
- Remote communication with modem

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- 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
- Manual oil drain pump
- 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
- Supplied with oil and coolant - 30 °C