



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.

Power (kVA) 3 Phase,50 Hz, PF 0.8

Voltage	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kW	kVA	kW	kVA	·
400/231	900,00	1125,00	818,40	1023,00	1623,85

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.

General Characteristics

Contrat Characteristics		
Model Name	AP 1125	
Frequency (Hz)	50	
Fuel Type	Diesel	
Engine Made and Model	PERKINS 4008TAG2A	
Alternator Made and Model	ECO 43-1M/4 A	
Control Panel Model	DSE 7320	
Canopy	AK 96-AP1125	

ENGINE SPECIFICATIONS

ENGINE OF ECH ICATIONS	
Engine	PERKINS
Engine Model	4008TAG2A
Number of Cylinder (L)	8 cylinders - in line
Bore (mm.)	160
Stroke (mm.)	190
Displacement (lt.)	30.561
Aspiration	Turbo Charged
Compression Ratio	13.6:1
RPM (d/dk)	1500
Oil Capacity (Total With Filter) (It)	153
Standby Power (kW/HP)	985/1320,37
Prime Power	899/1205,09
Block Heater QTY	1
Block Heater Power (Watt)	4000
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)	2x143	
Charge Alternator (A)	55	
Cooling Method	Water Cooled	
Cooling Fan Air Flow (m3/min)	1140	
Coolant Capacity (engine only / with radiator) (It)	/133	
Air Filter	Dry Type	
Fuel Cons. Prime With %100 Load (lt/hr)	215	
Fuel Cons. Prime With %75 Load (lt/hr)	162	
Fuel Cons. Prime With %50 Load (lt/hr)	111	
ALTERNATOR CHARACTERISTICS		
Manufacturer	Mecc Alte	
Alternator Made and Model	ECO 43-1M/4 A	
Frequency (Hz)	50	
Power (kVA)	1025	
Voltage (V)	400	
Phase	3	
A.V.R.	DER1	
Voltage Regulation	(+/-)0.5%%	
Insulation System	н	
Protection	IP23	
Rated Power Factor	0.8	
WEIGHT COMP. GENERATOR (Kg)	2275	
COOLING AIR (m³/min)	90	
Open Gen.Set Dimensions (mm)		
LENGTH	4786	
WIDTH	1972	
HEIGHT	2205	
DRY WEIGHT (kg.)	6920	
TANK CAPACITY (It.)	1500	
Gen.Set Canopy Dimensions (mm)		
LENGTH	7500	
WIDTH	2300	
HEIGHT	2508	
DRY WEIGHT (kg.)	10350	

INTRODUCTION

TANK CAPACITY (It.)

No Data

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice. (03.01.2024)

1500





Control Panel

Control Module	DSE	
Control Module Model	DSE 7320	
Communication Ports	MODBUS	
	 Menu navigation buttons Close mains button Main Status and instrumentation display Alarm LED's Close generator button Status LED's Operation selecting buttons 	

Devices

DSE, model 7320 Auto Mains Failure control module Static battery charger Emergency stop push button and fuses for control circuits

CONSTRUCTION and **FINISH**

Comonents installed in sheet steel enclosure.

Phosphate chemical, pre-coating of steel provides corrosion resistant surface

Polyester composite powder topcoat forms high gloss and extremely durable finish

Lockable hinged panel door provides for easy component access

INSTALLATION

Control panel is mounted generating set baseframe on robust steel stand or power module. Located at side of generating set with properly panel visibility.

GENERATING SET CONTROL UNIT

The DSE 7320 conrol module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel andgas generating sets that include electronic and non electronic engines.

The DSE 7320 includes the additional capability of being able to monitor a mains (utility) supply and is therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch.

The DSE7320 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LCD display on the front panel.

STANDARD SPECIFICATIONS

Microprocessor controlled

- 132 x 64 pixel LCD display makes information easy to read
- Front panel programming and also via PC software
- Soft touch membrane keypad and five key menu navigation
- Remote communications via RS232, RS485 and ethernet.
- Event logging (50) showing date and time
- Multiple date and time engine exercise mode and maintenance scheduler
- Engine block heater control.
- Controls; stop, manuel, auto, test, start, mute lamb test/transfer to generator, transfer to mains, menu navigation.

Instruments

ENGINE

Engine speed

Oil pressure





Coolant temperature

Run time Battery volts

Engine maintenance due

GENERATOR

Voltage (L-L, L-N)

Current (L1-L2-L3)

Frequency

Earth current

kW

Pf

kVAr

kWh, kVAh, kVArh

Phase sequence

MAINS

Voltage (L-L, L-N)

Frequency

WARNING

Charge failure

Battery under voltage

Fail to stop

Low fuel level (opt.)

kW over load

Negative phase sequence

Loss of speed signal

PRE-ALARMS

Low oil pressure

High engine temperature

Low engine temperature

Over /Under speed

Under/over generator frequency

Under/over generator voltage

ECU warning

SHUT DOWNS

Fail to start

Emergency stop

Low oil pressure

High engine temperature

Low coolant level





Over /Under speed

Under/over generator frequency

Under/over generator voltage

Oil pressure sensor open

Phase rotation

ELECTRICAL TRIP

Earth fault

kW over load

Generator over current

Negative phase sequence

Options

High oil temperature shut down

Low fuel level shut down

Low fuel level alarm

High fuel level alarm

EXPANSION MODULES

Editional LED module (2548)

Expension relay module (2157)

Expansion input module (2130)

Standards

Elecrical Safety / EMC compatibility

BS EN 60950 Electrical business equipment

BS EN 61000-6-2 EMC immunity standard

BS EN 61000-6-4 EMC emission standard

STATIC BATTERY CHARGER

Battery charger is manufactured with switching-mode and SMD technology and it has high efficincy.

Battery charger models' output V-I characteristic is very close to square

2405 has fully output shot circuit protection and it can be used as a current source.

2405 charger has high efficiency, long life, low failure rate, light weight and low heat radiated in accordance with linear alternatives.

The charger is fitted with a protection diode across the output.

Charge fail output is available.

Connect charge fail relay coil between positive output and CF output.

Input: 196-264V.

Output: 27,6V 5A or 13,8V 5A.

STANDARD 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

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

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 $^{\circ}\text{C}$

AKSA CERTIFICATES

- TS ISO 8528
- TS ISO 9001-2008
- CE
- SZUTEST
- 2000/14/EC