





AP 880

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.

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Power (kVA)

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING	(ESP)	PRIME RATING (PRP)		Standby Amper
VOLTAGE	kW	kVA	kW	kVA	
400/231	704,00	880,00	640,00	800,00	1270,21

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

Model N	ame	AP 880
Frequen	cy (Hz)	50
Fuel Typ	e	Diesel
Engine N	/ade and Model	PERKINS 4006-23TAG3A
Alternato	or Made and Model	ECO 43-1S/4 A
Control F	Panel Model	DSE 7320
Canopy		AK 91

ENGINE SPECIFICATIONS

Engine	PERKINS
Engine Model	4006-23TAG3A
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	160
Stroke (mm.)	190
Displacement (lt.)	22.921
Aspiration	Turbo Charged
Compression Ratio	13.6:1
RPM (d/dk)	1500



Oil Capacity (Total With Filter) (It)	113.4
Standby Power (kW/HP)	786/1053,61
Prime Power	705/945,03
Block Heater QTY	1
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)	2x143
Charge Alternator (A)	55
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	870
Coolant Capacity (engine only / with radiator) (It)	/120
Air Filter	Dry Туре
Fuel Cons. Prime With %100 Load (lt/hr)	172
Fuel Cons. Prime With %75 Load (lt/hr)	130
Fuel Cons. Prime With %50 Load (lt/hr)	90
ALTERNATOR CHARACTERISTICS	
Manufacturer	Mecc Alte
Alternator Made and Model	ECO 43-1S/4 A
Frequency (Hz)	50
Power (kVA)	800
VOLTAGE (V)	400
Phase	3
A.V.R.	DER1
Voltage Regulation	(+/-)0.5%
Insulation System	н

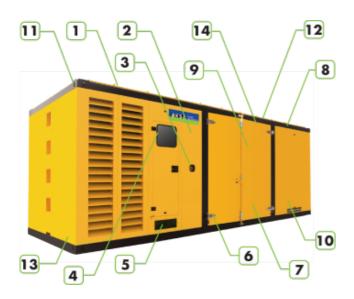
IP23 Protection **Rated Power Factor** 0.8 WEIGHT COMP. GENERATOR (Kg) 1870 COOLING AIR (m³/min) 90 **Open Gen.Set Dimensions (mm)**

LENGTH	4100	
WIDTH	1690	
HEIGHT	2273	
DRY WEIGHT (kg.)	5500	
TANK CAPACITY (It.)	1500	

Gen.Set Canopy Dimensions (mm)

LENGTH	5920	
WIDTH	2200	
HEIGHT	2353	
DRY WEIGHT (kg.)	7500	
TANK CAPACITY (It.)	1100	

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1. Steel structure made from steel sheet and steel profiles.

- **2.** canopy and panels made from powder coated sheet steel.
- **3.** Emergency stop push button.

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- 4. Control panel is mounted on the baseframe . Located
- at the right side of the generator set.
- 5. Cables out locations are under or back of the canopy.
- 6. Corrosion.resistant locks and hinges.
- 7. oil could be drained via valve and a hose
- **8.** Exhaust system in the canopy.

9. special large access doors (marine type) for easy maintanance

10. Fuel tank is at front of the canopy ,easy access to the fuel tank via lockable door.

11. Lifting points similar to ISO container , located on each top corner of the canopy.

12. the cap on the canopy provides easy accesss to radiator cap.

13. sound proofing materials

14. Integrated ladder built in to side of the canopy allows access to the top of the canopy.

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.

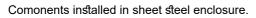
Control Panel

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



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

AKSA POWER GENERATION

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

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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

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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.

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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

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice. (21.10.2020)

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Supplied with oil and coolant - 30 °C

AKSA CERTIFICATES

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

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