



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 | 264,00 | 330,00 | 240,00 | 300,00 | 476,33 |

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 Name | AP 330 |
| Frequency (Hz) | 50 |
| Fuel Type | Diesel |
| Engine Made and Model | PERKINS 1506A-E88TAG5 |
| Alternator Made and Model | ECO 38-1L/4 C |
| Control Panel Model | DSE 7320 |
| Canopy | MS 60 |

ENGINE SPECIFICATIONS

| | |
|---------------------------------------|-------------------------------|
| Engine | PERKINS |
| Engine Model | 1506A-E88TAG5 |
| Number of Cylinder (L) | 6 cylinders - in line |
| Bore (mm.) | 112 |
| Stroke (mm.) | 149 |
| Displacement (lt.) | 8.8 |
| Aspiration | Turbo Charged and AfterCooled |
| Compression Ratio | 16.1:1 |
| RPM (d/dk) | 1500 |
| Oil Capacity (Total With Filter) (lt) | 41 |
| Standby Power (kW/HP) | 307/411,52 |
| Prime Power | 281/376,67 |
| Block Heater QTY | 1 |
| Block Heater Power (Watt) | 3000 |
| Fuel Type | Diesel |
| Injection Type and System | Direct |
| Type of Fuel Pump | HEUI |
| Governor System | ECM |
| Operating Voltage (Vdc) | 24 Vdc |

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice. (12.06.2023)



Battery and Capacity (Qty/Ah) 2x85

Charge Alternator (A) 45

Cooling Method Water Cooled

Cooling Fan Air Flow (m³/min) 370

Coolant Capacity (engine only / with radiator) (lt) /33.2

Air Filter Dry Type

Fuel Cons. Prime With %100 Load (lt/hr) 64.9

Fuel Cons. Prime With %75 Load (lt/hr) 48.2

Fuel Cons. Prime With %50 Load (lt/hr) 33

ALTERNATOR CHARACTERISTICS

Manufacturer Mecc Alte

Alternator Made and Model ECO 38-1L/4 C

Frequency (Hz) 50

Power (kVA) 300

VOLTAGE (V) 400

Phase 3

A.V.R. DSR

Voltage Regulation (+/-)1%

Insulation System H

Protection IP23

Rated Power Factor 0.8

WEIGHT COMP. GENERATOR (Kg) 771

COOLING AIR (m³/min) 32

Open Gen.Set Dimensions (mm)

LENGTH 2750

WIDTH 1300

HEIGHT 1804

DRY WEIGHT (kg.) 2385

TANK CAPACITY (lt.) 470

Gen.Set Canopy Dimensions (mm)

LENGTH 3934

WIDTH 1356

HEIGHT 2140

DRY WEIGHT (kg.) 3065

TANK CAPACITY (lt.) 470

1. Steel structures.
2. Emergency stop push button.
3. Control panel is mounted on the baseframe. Located at the right side of the generator set.



4. Corrosion-resistant locks and hinges.
5. Oil could be drained via valve and a hose
6. Exhaust system in the canopy.
7. Special large access doors for easy maintenance
8. Base frame -fuel tank.
9. Lifting points similar to ISO container, located on each top corner of the canopy.
10. The cap on the canopy provides easy access to radiator cap.
11. Soundproofing materials
12. Plastic air intake pockets.

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 |
| | <ol style="list-style-type: none"> 1. Menu navigation buttons 2. Close mains button 3. Main Status and instrumentation display 4. Alarm LED's 5. Close generator button 6. Status LED's 7. Operation selecting buttons |

Devices

DSE 7320 Auto Mains Failure control module

Static battery charger

Emergency stop push button and fuses for control circuits

CONSTRUCTION and FINISH

Components installed in a sheet steel enclosure.

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

Polyester composite powder topcoat forms a high gloss and extremely durable finish

Lockable hinged panel door provides for easy component access

INSTALLATION

Control panel is mounted to gen-set baseframe on robust steel stand or power module. Located on the side of generating set with proper panel visibility.

GENERATING SET CONTROL UNIT

The DSE 7320 control module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel and gas 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, manual, 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 overload

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
SHUTDOWNS
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 overload
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
Additional LED module (2548)
Expansion relay module (2157)
Expansion input module (2130)

Standards

Electrical 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 efficiency.

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

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

2405 charger has high efficiency, long life, low failure rate, lightweight 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 the 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
- 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 Separator Filter

Oil heater

ALTERNATOR

Anti-Condensation Heater

Over sized alternator

Main line circuit breaker

CONTROL SYSTEM

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

Residential silencer

Enclosure: weather protective or sound attenuated

Duct adapter (on radiator)

Inlet and outlet motorised louvers

Inlet and outlet acoustic baffles

Trailer

Tool kit for maintenance

Supplied with oil and coolant - 30 °C

Battery isolating switch

AKSA CERTIFICATES

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