





AJD 275

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 Ampe		Standby Amper
VOLTAGE	kW	kVA	kW	kVA	
400/231	220,00	275,00	200,00	250,00	396,94

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. 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. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

General Characteristics

Model Name	AJD 275
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	JOHN DEERE 6068HFG55
Alternator Made and Model	ECO 38-1L/4 A
Control Panel Model	DSE 7320
Canopy	MS 60

ENGINE SPECIFICATIONS

Engine	JOHN DEERE
Engine Model	6068HFG55
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	106
Stroke (mm.)	127
Displacement (lt.)	6,8
Aspiration	Turbo Charged and After Cooled
Compression Ratio	17.2:1
RPM (d/dk)	1500

AKSA POWER GENERATION AJD 275



Oil Capacity (Total With Filter) (It)	33
Standby Power (kW/HP)	250/335
Prime Power (kW/HP)	227/304
Block Heater QTY	1
Block Heater Power (Watt)	1500
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	HPCR (High Pressure Common Rail)
Governor System	Electronic
Operating Voltage (Vdc)	12 Vdc
Battery and Capacity (Qty/Ah)	1x85
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	301
Coolant Capacity (engine only / with radiator) (It)	12.7/31.2
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (It/hr)	53
Fuel Cons. Prime With %75 Load (lt/hr)	40.4
Fuel Cons. Prime With %50 Load (lt/hr)	27.4
ALTERNATOR CHARACTERISTICS	
Manufacturer	Mecc Alte

Manufacturer	Mecc Alte
Alternator Made and Model	ECO 38-1L/4 A
Frequency (Hz)	50
Power (kVA)	250
VOLTAGE (V)	400
Phase	3
A.V.R.	DSR
Voltage Regulation	(+/-)1%
Insulation System	Н
Protection	IP23
Rated Power Factor	0.8
WEIGHT WOUND ROTOR (Kg)	147.5
COOLING AIR (m ³ /min)	32
Open Gen.Set Dimensions (mm)	
LENGHT	2750
	1300

WIDTH	1300	
HEIGHT	1728	
DRY WEIGHT (kg.)	2055	
TANK CAPACITY (It.)	470	
Gen.Set Canopy Dimensions (mm)		

AKSA POWER GENERATION

LENGHT	3960
WIDTH	1356
HEIGHT	2167
DRY WEIGHT (kg.)	2735
TANK CAPACITY (lt.)	470
	 Steel structures. Emergency stop push button. Control panel is mounted on the baseframe . Located at the right side of the generator set. Corrosion-resistant locks and hinges. Oil could be drained via valve and a hose Exhaust system in the canopy. Special large access doors for easy maintanance In front and back side special large access doors for easy maintanance Base frame -fuel tank. Lifting points similar to ISO container , located on each top corner of the canopy. The cap on the canopy provides easy access to radiator cap. Sound proofing materials Plastic air intake pockets.
INTRODUCTION	

AJD 275

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

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

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.

AJD 275

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 and SMS messaging
- 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	







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

AJD 275



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
- 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	
Remote Radiator Cooling	
Electronic governor control	
Fuel-Water Seperator Filter	
Low water level alarm	
Oil heater	
ALTERNATOR	

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice. (03.07.2018)

www.aksa.com.tr





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 Pole Contactor
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
Residential silencer
Enclosure: weater protective or sound attenuated
Duct adapter (on radiator)
Inlet and outlet motorised louvers
Inlet and outlet acoustic baffles
Trailer
Tool kit for maintenance
1500/3000 hours maintenance kit
Double wall chassis
Supplied with oil and coolant - 30 °C
Battery isolating switch
Automatic transfer switch

AKSA CERTIFICATES

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