

# 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
voltage	kW	kVA	kW	kVA	
400/231	60,00	75,00	54,40	68,00	108,26

**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	AJD 75
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	JOHN DEERE 4045TF120
Alternator Made and Model	ECP 321L/4 C
Control Panel Model	DSE 6120
Canopy	AK 40
ENGINE SPECIFICATIONS	
Engine	JOHN DEERE

Engine	JOHN DEERE
Engine Model	4045TF120
Number of Cylinder (L)	4 cylinders - in line
Bore (mm.)	106
Stroke (mm.)	127
Displacement (It.)	4.5
Aspiration	Turbo Charged
Compression Ratio	17.0:1
RPM (d/dk)	1500
Oil Capacity (Total With Filter) (It)	13.2
Standby Power (kW/HP)	70/94
Prime Power	63/84
Block Heater QTY	1
Block Heater Power (Watt)	750
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	Stanadyne DB4 Rotary Type
Governor System	Mechanic
Operating Voltage (Vdc)	12 Vdc

AJD 75

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Battery and Capacity (Qty/Ah)	1x66
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	81
Coolant Capacity (engine only / with radiator) (It)	8.5/32
Air Filter	Dry Туре
Fuel Cons. Prime With %100 Load (lt/hr)	16
Fuel Cons. Prime With %75 Load (lt/hr)	12.2
Fuel Cons. Prime With %50 Load (lt/hr)	8.1

# **ALTERNATOR CHARACTERISTICS**

Manufacturer	Mecc Alte
Alternator Made and Model	ECP 321L/4 C
Frequency (Hz)	50
Power (kVA)	75
Voltage (V)	400
Phase	3
A.V.R.	DSR
Voltage Regulation	(+/-)1%
Insulation System	н
Protection	IP23
Rated Power Factor	0.8
WEIGHT COMP. GENERATOR (Kg)	244
COOLING AIR (m³/min)	15.7
Open Gen.Set Dimensions (mm)	
LENGTH	2150
WIDTH	1050
HEIGHT	1519
DRY WEIGHT (kg.)	1100
TANK CAPACITY (It.)	240
Gen.Set Canopy Dimensions (mm)	
LENGTH	3105
WIDTH	1107
HEIGHT	1803
DRY WEIGHT (kg.)	1500
TANK CAPACITY (It.)	240
	<ol> <li>Steel structures</li> <li>Emergency stop push button</li> <li>Control panel is right side of the set.</li> </ol>

4. Corrosion.resistant locks and hinges

5. Sump drains valves

6. Sound proof foam metarial







7. Lifting Points

## **INTRODUCTION**

Sound-attenuated and Weather-protective Enclosures 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 6120
Communication Ports	CANBUS
	<ol> <li>Menu navigation buttons</li> <li>Close mains button</li> <li>Main Status and instrumentation display</li> <li>Alarm LED's</li> <li>Close generator button</li> </ol>

- 6. Status LED's
- 7. Operation selecting buttons

### **Devices**

-DSE, model 6120 Auto Mains Failure control module.

-Battery charger input 198-264 volt, output 27,6 V 5 A (24 V) or 13,8 Volt 5A (12V)

-Emergency stop push button and fuses for control circuits.

### **CONSTRUCTION and FINISH**

-Components 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 and hinged panel door provides easy access to components.

### INSTALLATION

Control panel is mounted on baseframe with steel stand. Located at the right side of the generator set (When you look at the Gen.Set. from Alternator)

### **GENERATING SET CONTROL UNIT**

The DSE 6120 module has been designed to monitor generator frequency, volt, current, engine oil pressure, coolant temperature running hours and battery volts.

Module monitors the mains supply and switch over to the generator when the mains power fails.

The DSE6120 also indicates operational status and fault conditions, Automatically shutting down the Gen. Set and giving true first up fault condition of Gen. Set failure. The LCD display indicates the fault.

### STANDARD SPECIFICATIONS

-Microprocessor controlled.

-LCD display makes information easy to read.

-Automatically transfers between mains (utilty) and generator power.

-Manual programming on front panel.

-User-friendly set-up and button layout.

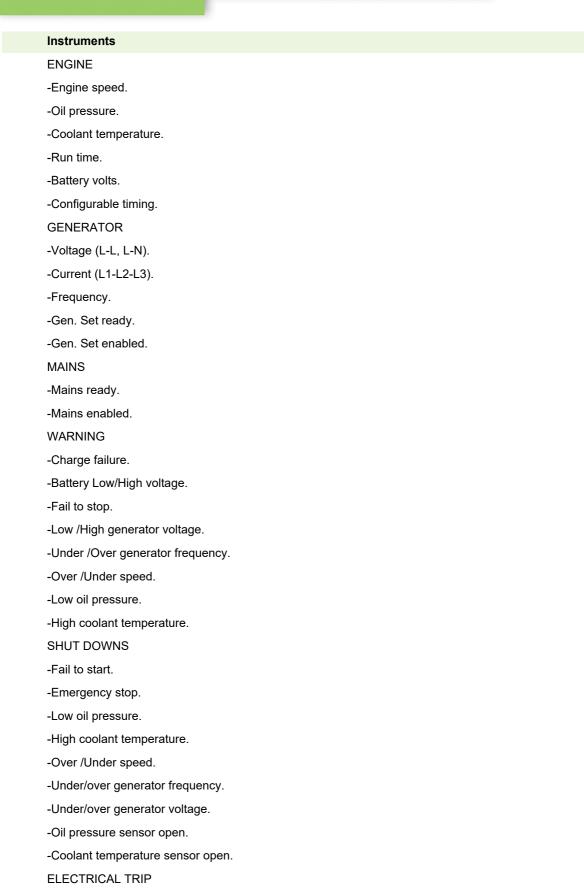
-Remote start.

-Event logging (50) showing date and time.

-Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to scroll through the modules' metering displays.

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-Generator over current.

# AJD 75



### Options

-Flexible sensor can be controlled with temperature, pressure, percentage (warning/shutdown/electrical trip)

-Local setting parameters and monitoring from PC to control module with USB connection (max 6 mt).

### 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 efficiency.
- Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 13,8 V for 12 volt and 27,6 V for 24 V . Input 198 264 volt AC.
- The charger is fitted with a protection diode across the output.
- Connect charge fail relay coil between positive output and CF output.
- They are equipped with RFI filter to reduce electrical noise radiated from the device.
- Galvanically isolated input and output typically 4kV for high reliability.

### **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

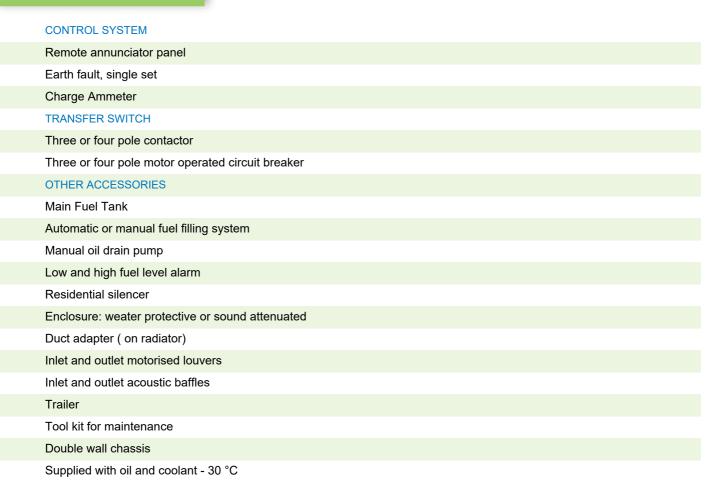
Electronic governor control
Fuel-Water Seperator Filter
Low water level alarm
Oil heater
ALTERNATOR
Anti-Condensation Heater
Over sized alternator
Main line circuit breaker

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice. (19.12.2022)

## www.aksa.com.tr

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# **AKSA CERTIFICATES**

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