

80,00

129,91

400/231

AKSA POWER GENERATION

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.

Standby RATING (ESP) PRIME RATING (PRP) Standby Amper kW kVA kW kVA

90,00

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.

64,00

General Characteristics

Type of Fuel Pump

Governor System

Operating Voltage (Vdc)

72,00

| ocheral onaracteristics | |
|---------------------------------------|-----------------------|
| Model Name | AJD 90 |
| Frequency (Hz) | 50 |
| Fuel Type | Diesel |
| Engine Made and Model | JOHN DEERE 4045TF220 |
| Alternator Made and Model | ECP 322L/4 C |
| Control Panel Model | DSE 6120 |
| Canopy | AK 40 |
| ENGINE SPECIFICATIONS | |
| Engine | JOHN DEERE |
| Engine Model | 4045TF220 |
| 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) | 83/111 |
| Prime Power | 75/101 |
| Block Heater QTY | 1 |
| Block Heater Power (Watt) | 750 |
| Fuel Type | Diesel |
| Injection Type and System | Direct |
| | |

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Stanadyne DB4 Rotary Type

Mechanic 12 Vdc

AJD 90

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| Battery and Capacity (Qty/Ah) | 1x66 |
|---|--------------|
| Cooling Method | Water Cooled |
| Cooling Fan Air Flow (m3/min) | 108 |
| Coolant Capacity (engine only / with radiator) (It) | 8.5/32 |
| Air Filter | Dry Туре |
| Fuel Cons. Prime With %100 Load (lt/hr) | 22.9 |
| Fuel Cons. Prime With %75 Load (lt/hr) | 16.5 |
| Fuel Cons. Prime With %50 Load (lt/hr) | 11.8 |

ALTERNATOR CHARACTERISTICS

| Manufacturer | Mecc Alte |
|-----------------------------------|---|
| Alternator Made and Model | ECP 322L/4 C |
| Frequency (Hz) | 50 |
| Power (kVA) | 82.5 |
| 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) | 252 |
| COOLING AIR (m ³ /min) | 15.7 |
| Open Gen.Set Dimensions (mm) | |
| LENGTH | 2150 |
| WIDTH | 1050 |
| HEIGHT | 1519 |
| DRY WEIGHT (kg.) | 1140 |
| TANK CAPACITY (It.) | 240 |
| | |
| Gen.Set Canopy Dimensions (mm) | |
| LENGTH | 3105 |
| WIDTH | 1107 |
| HEIGHT | 1803 |
| DRY WEIGHT (kg.) | 1545 |
| TANK CAPACITY (It.) | 240 |
| | Steel structures Emergency stop push button Control panel is right side of the set. |

3. Control panel is right side of the set.

4. Corrosion.resistant locks and hinges

5. Sump drains valves

6. Sound proof foam metarial

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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 |
| | Menu navigation buttons Close mains button Main Status and instrumentation display Alarm LED's Close generator button Status Pole |

- 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.

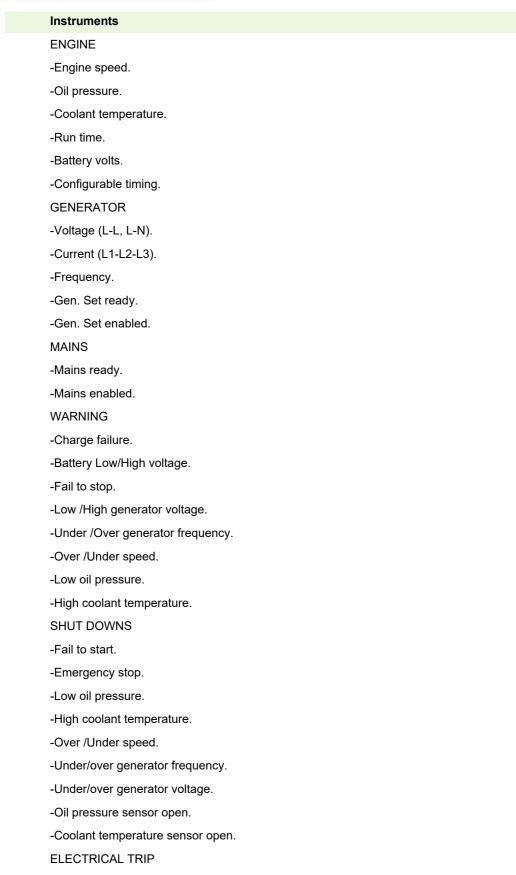
-Event logging (50) showing date and time.

-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.

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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

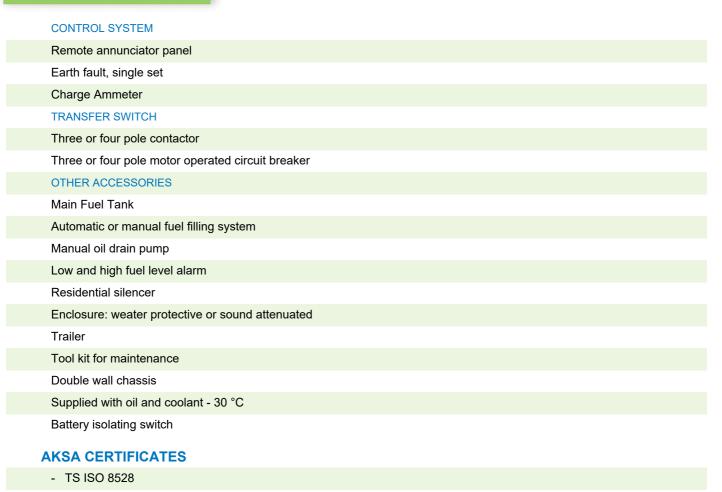
| Electronic governor control |
|-----------------------------|
| Fuel-Water Seperator Filter |
| Low water level alarm |
| Oil heater |
| ALTERNATOR |
| Anti-Condensation Heater |
| Over sized alternator |
| Main line circuit breaker |

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