AJD132

**Standby:** Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046.

**Prime:** Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528, ISO 3046.

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance possibility
- Every generating set is subject to a comprehensive test program which includes full load testing, checking and provision of all control and safety shut down functions testing
- Fully engineered with a wide range of options and accessories: Canopy, sound proof canopy and off-road trailer

<table>
<thead>
<tr>
<th>MODEL</th>
<th>AJD132</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Pf. 0.8</strong></td>
<td></td>
</tr>
<tr>
<td>Standby</td>
<td>kVA 132</td>
</tr>
<tr>
<td></td>
<td>kW 106</td>
</tr>
<tr>
<td>Prime</td>
<td>kVA 120</td>
</tr>
<tr>
<td></td>
<td>kW 96</td>
</tr>
</tbody>
</table>

Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

**POWERED by JOHN DEERE**

132kVA / 106kW

**DIESEL GENERATING SET**

400/230V- 3phase -50HZ

www.aksapowergen.com
**ENGINE**

<table>
<thead>
<tr>
<th>JOHN DEERE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
</tr>
<tr>
<td>Engine Power Output at rated rpm</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Aspiration and Cooling</td>
</tr>
<tr>
<td>Total Displacement</td>
</tr>
<tr>
<td>No. of Cylinders and Build</td>
</tr>
<tr>
<td>Engine Speed</td>
</tr>
<tr>
<td>Bore and Stroke</td>
</tr>
<tr>
<td>Compression Ratio</td>
</tr>
<tr>
<td>Governor</td>
</tr>
<tr>
<td>Fuel Consumption at 100% load</td>
</tr>
<tr>
<td>Fuel Consumption at 75% load</td>
</tr>
<tr>
<td>Fuel Consumption at 50% load</td>
</tr>
<tr>
<td>Fuel Tank Capacity</td>
</tr>
<tr>
<td>Oil Capacity</td>
</tr>
<tr>
<td>Coolant Capacity</td>
</tr>
<tr>
<td>Radiator Cooling Air</td>
</tr>
<tr>
<td>Air Intake – Engine</td>
</tr>
<tr>
<td>Exhaust Gas Flow</td>
</tr>
</tbody>
</table>

- Heavy duty John Deere diesel engine
- Four stroke, water cooled, Turbocharged
- Direct injection fuel system
- Mechanical Governor system
- 12 V D.C. starter and charge alternator
- Replaceable fuel filter, oil filter and dry element air filter
- Cooling radiator and fan
- Starter battery (with lead acid) including Rack and Cables
- Flexible fuel connection hoses and manual oil sump drain valve
- Industrial capacity exhaust silencer and steel bellows
- Operation manuals and circuit diagram documents

**ALTERNATOR**

| Design                  | Brushless single bearing, revolving field |
|                        |                                            |
| Stator                 | 2/3 pitch                                 |
| Rotor                  | Single bearing, flexible disc             |
| Insulation System      | Class H                                   |
| Standard Temperature Rise | 125 - 163°C  Continuous                  |
| Exciter Type           | Self Excited                              |
| Phase Rotation         | A (U), B (V), C (W)                       |
| Alternator Cooling     | Direct drive centrifugal blower fan       |
| AC Waveform Total Harmonic Distortion | No load < 1.5%. Non distorting balanced linear load < 5% |
| Telephone Influence Factor (TIF) | <50 per NEMA MG1-22.43                |
| Telephone Harmonic Factor (THF) | <2%                                       |

- Brushless, single bearing system, flexible disc, 4 poles
- Insulation class H
- Standard degree of protection IP23
- Self-exciting and self-regulating
- All wound components are impregnated with materials and processes designed specifically
- Solid state Automatic Voltage Regulator
- Stator winding with 2/3 pitch for improved harmonics
CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

1. Auto Mains Failure Control Panel
   Panel equipments:
   ✓ Control with AMF module
   ✓ Static battery charger
   ✓ Emergency stop push button

a) Generating set control module DSE 6020 features:
   ✓ The module is used to monitor main supply and starts and stops of a standby generating set
   ✓ Micro-processor based design
   ✓ Automatic control of main and generator contactors
   ✓ Monitors engine performance and AC power output LED alarm indication
   ✓ Front panel configuration of timers and alarm trip points
   ✓ CAN and magnetic pick-up versions (specify on ordering)
   ✓ 4 digital inputs/3 analogue inputs
   ✓ 6 outputs (4 configurable on Magnetic Pick-up, 6 configurable on CANbus version)
   ✓ Easy push button control
   STOP/RESET - MANUAL - AUTO - TEST – START

c) Alarms:
   ✓ Over and Under Speed
   ✓ Low and High Battery Volt.
   ✓ Start and Stop Failure
   ✓ Charge fail
   ✓ Over Current
   ✓ Under / Over Generator Voltage
   ✓ Low Oil Pressure
   ✓ Emergency stop
   ✓ High engine temperature

d) LED indications
   ✓ Mains available
   ✓ Generator available
   ✓ Mains on load
   ✓ Generator on load

2. Power Outlet Terminal Board Mounted on the Gen-set Base Frame

b) Metering via LED display:
   ✓ Generator Volts (L-L / L-N)
   ✓ Engine oil pressure (PSI-Bar)
   ✓ Generator Ampere (L1,L2,L3)
   ✓ Engine temperature (° C & ° F)
   ✓ Generator Frequency (Hz)
   ✓ Plant battery volts
   ✓ Engine hours run
   ✓ Mains Volts (Ph-Ph/Ph-N)

OPTIONAL EQUIPMENTS

Diesel Engine
✓ Oil heater

Alternator
✓ 3/4 Pole Output Circuit Breaker
✓ Anti-condensation Heater

Panel
✓ Charge ammeter
✓ Transfer Switch 3 Pole
✓ Transfer Switch 4 Pole
✓ Earth Fault single set

Accessories
✓ Bulk fuel tank
✓ Automatic filling system
✓ Fuel-water separator filter
✓ Low fuel level alarm
✓ Residential silencer
✓ Enclosure or sound proof canopy
✓ Trailer
✓ Manual oil drain pump
✓ Tool kit for maintenance
CHASSIS

- The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- Anti-vibration pads are fixed between the engine/alternator feet and the base frame
- Base frame design incorporates an integral fuel tank (Up to 750 kVA)
- The generating set can be lifted or carefully pushed/pulled by the base frame
- Dial type fuel gauge and drain plug on the fuel tank

DIMENSIONS

<table>
<thead>
<tr>
<th>Type</th>
<th>Dimensions (LxWxH)</th>
<th>Dry Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPEN TYPE</td>
<td>2300x1150x1558</td>
<td>1250 kg</td>
</tr>
<tr>
<td>SOUND ATTENUATED TYPE</td>
<td>3414x1206x1942</td>
<td>1630 kg</td>
</tr>
</tbody>
</table>

CANOPY

- All canopy parts are designed with modular principles
- Without welding assembly
- Doors on each side
- All metal canopy parts are painted by electrostatic polyester powder paint
- Exhaust silencer is protected against environment influences
- Thermally insulated engine exhaust system
- Emergency stop push button is installed outside of the canopy
- Easy lifting and moving
- Easy maintenance and operation