

AJD 44

aksa POWER GENERATION



231/400 V - 50 Hz	Generating Set Model	AJD 44
Power Pf. 0,8	Standby kVA	44
	Prime kVA	40

Standby:Continuous running at variable load running position.It can run to main energy auxiliary.No overload is permitted on these ratings. In accordance with BS 5514, ISO 3046

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

DESIGN SPECIFICATIONS

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance possibility
- Every generating set is subjected to a comprehensive test programme which includes full load testing and checking and providing of all control and safety shut down functions testing
- Full engineered with a wide range of options and accessories:Canopy,soundproof and on road trailer

STANDARD GENSET SPECIFICATIONS

ENGINE:

- JOHN DEERE heavy duty diesel engine
- Four stroke,water cooled,direct injection fuel system
- Mechanical governor control system
- Changeable wet type cylinder liners
- 12 V.D.C.starter and charge alternator
- Replaceable cartridge type air filter,fuel filter and oil filter
- Cooling radiator and fan
- Flexible fuel connection hoses and sump oil drain valve
- Industrial capacity exhaust silencer and expansion joint
- Starter battery (with lead acid)including rack and cables
- Jacket water heater (at automatic models)
- Manual and circuit diagram documents

ALTERNATOR:

- Brushless, single bearing system, 4 poles
- Insulation class H
- Standard degree of protection IP21
- Self-exciting and self-regulating
- Solid state automatic voltage regulator
- Screen protected and drip proof
- Impregnation with tropicalized epoxy varnished

- Stator winding with 2/3 pitch for improved harmonics

CHASSIS:

- Steel chassis and antivibration pads
- Base frame design incorporates an integral fuel tank
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Dial type fuel gauge and drain plug
- Forklift pockets within baseframe

CANOPY:

- All canopy parts are designed with modular principles
- Without welding assembly
- To enable for lifting, easy maintenance and operation
- All metal canopy parts are painted by electrostatic polyester powder paint
- Exhaust silencer is protected against environmental influences
- Emergency stop push button is installed outside of canopy
- Modular canopy can also be installed at a later date
- Easy maintenance and operation
- Easy lifting and moving

QUALITY STANDARDS:

- The equipment meets the following standards: ISO 3046, VDE 0530, BS 4999, BS 5000, IEC 34-1. The generating set is manufactured by a full accredited ISO 9001 NQA.

WARRANTY:

- 12 months warranty from commissioning date as standard.

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 – P300
 - Control Panel Equipments:
 - Control panel with DSE 720 module
 - Static battery charger
 - Emergency stop push button
 - a) Generating Set control module DSE720 features:
 - The module is used to monitor a mains supply and automatically start a standby generator set.
 - Scrolling digital LCD display
 - Front panel configuration of timers and alarm trip points
 - Easy push button control
 - OFF/MANUAL/AUTO/TEST/START
 - LCD display Scroll push button
 - b) Metering via LCD Display
 - Generator Volt (F-N)
 - Generator Ampere (L1, L2, L3)
 - Generator Frequency (Hz)
 - Mains Volts (F-F/F-N)
 - Engine Temperature
 - Engine Oil Pressure
 - Engine Speed
 - Engine Hours run

- Plant Battery Volt
- c)Alarms
- Under generator voltage
- Over current
- Over Speed
- Under/Over mains volt
- Under/Over mains frequency
- Low oil pressure
- High Engine temperature
- Low battery volt
- Charge fail
- Start failure
- Emergency stop
- d)LED indications
- Mains Available
- Mains on load
- Generator availbale
- Generator on load

TECHNICAL DATA						
Diesel Generating Sets 231/400 V - 50 Hz						
G R O U P	MODEL			AJD 44		
	Power Pf. 0,8			44		
				35		
			40	32		
D I E S E L E N G I N E	Engine Make			John Deere		
	Model			4039 D		
	Gross engine power output at rated rpm		kWm hp	40	54	
	Aspiration and Cooling			Natural Aspiration		
	Cylinders Capacity		Lt	3.9		
	Cylinders and Build			4 - In line		
	Engine Speed		rpm	1500 rpm		
	Bore and Stroke		mmxmm	106x110		
	Compression Ratio			17.8:1		
	Governor			Mechanical		
	Fuel Consumption		Load L/hr	1/2	3/4	Full
				5	7.5	9
	Fuel Tank Capacity		Lt	132		
	Oil Capacity		Lt	9.5		
	Water Capacity		Lt	21.5		
Air Intake - Engine		m ³ /min	2.4			
Exhaust Gas Flow		m ³ /min	6.7			

Alternator Voltage Regulation	± %1
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OPEN TYPES

Dimensions (length x width x height)	mm	1860x930x1330
Dry weight	kg	910

SOUND ATTENUATED TYPE

Canopy Model		ASM 4
Dimensions (length x width x height)	mm	2500x970x1570
Dry weight	kg	1220

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

OPTIONAL EQUIPMENTS

- * Fuel - water separator filter
- * Automatic fuel filling system
- * Low fuel level alarm
- * Over sized alternator
- * Charge voltmeter
- * Anti condensation heater
- * Hand transfer pump
- * Oil temperature shutdown
- * Alternator circuit breaker (only for automatic models)
- * Enclosure, sound proof canopy
- * Remote Radiator
- * Engine oil heater
- * Tool kit
- * Electronic governor control
- * Charge ammeter
- * 4 Pole contactor
- * Sump oil drain pump
- * Automatic Transfer Switch by contactor
- * Special type silencer (residential,critical)
- * Trailer