

AJD 170

**aksa** POWER GENERATION



230/400 V - 50 Hz	Generating Set Model	AJD 170
Power Pf. 0,8	Standby kVA	170
	Prime kVA	154

**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;
- **Common Instruments**
- 3 Ammeter
- 1 Hour run meter
- 1 Volt-Frequency (by LED) and selector switch
- Engine oil pressure gauge
- Engine coolant temperature gauge
- Emergency stop push button
- **1- Auto start Control System - P500**
- Control with DSE 704 Module
- Static battery charger
- Thermally delayed overload protection
- Engine water heater control
- a) DSE 704 Module Features
- Three phases mains sensing
- Engine protection
- Automatic engine starting and stopping
- Simple push button controlled operation (Stop-Reset / Manual / Auto)
- Micro processor based design
- Configurable via front panel
- Configurable timer settings
- Adjustable mains fail voltage level

- Mains / Generator, change over-contactor control
- External remote start input
- b) Status and Fault Conditions Displayed by LED Illumination:
- High engine temperature shutdown
- Low oil pressure shutdown
- Over speed shutdown
- Charge alternator fault warning
- Indication for mains / generator and their contactor status
- **2- Manual Control System - ME 40**
- Control with DSE 701 Module
- a) DSE 701 Module Features
- Engine supervision and protection
- Key switch off/manual start positions
- Manual start pushbutton
- b) Module Emergency LED'S
- High engine temperature shutdown
- Low oil pressure shutdown
- Over speed, shutdown
- Charge failure warning
- 2-1 Circuit Breaker (manual modal)

TECHNICAL DATA						
Diesel Generating Sets 230/400 V - 50 Hz						
G R O U P	MODEL			AJD 170		
	Power Pf. 0,8			170		
				136		
			154	123		
D I E S E L  E N G I N E	Engine Make			John Deere		
	Model			6068 H		
	Gross engine power output at rated rpm		kWm hp	153 205		
	Aspiration and Cooling			Turbo charged & Air to air		
	Cylinders Capacity		Lt	6.8		
	Cylinders and Build			6 In line		
	Engine Speed		rpm	1500 rpm		
	Bore and Stroke		mmxmm	106x127		
	Compression Ratio			17.0:1		
	Governor			Mechanical		
	Fuel Consumption		Load L/hr	1/2 17.5	3/4 25	Full 33.5
	Fuel Tank Capacity		Lt	370		
	Oil Capacity		Lt	19		
Water Capacity		Lt	34.5			
Air Intake - Engine		m <sup>3</sup> /min	11.2			

Exhaust Gas Flow	m <sup>3</sup> /min	23.1
Alternator Voltage Regulation		± %1

OPEN TYPES		
Dimensions (length x width x height)	mm	2400x1150x1580
Dry weight	kg	1520

SOUND ATTENUATED TYPE		
Canopy Model		ASM 6
Dimensions (length x width x height)	mm	3250x1100x1890
Dry weight	kg	2110

\* 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