

### 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 canopy and on road trailer



230/400 V-50 Hz	Generating Set Model		AJD 165	AJD 170	AJD 200
Power Pf. 0,8	Standby	kVA	165	170	200
	Prime	kVA	150	155	180

Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046, BS 5514.

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

Contact us for the other running periods.

### STANDARD GENSET SPECIFICATIONS

#### ENGINE

- JOHN DEERE heavy duty diesel engine
- Four stroke, water cooled, direct injection fuel system
- Mechanical governor control system
- Replaceable wet type cylinder liners
- 12 Volt 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 steel bellow
- Starter battery (with lead acid) including Rack and Cables
- Jacket water heater (at automatic models)
- Operation manual and circuit diagram documents

#### ALTERNATOR

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

#### 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 on the fuel tank
- Forklift pockets within base frame

#### 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: IEC 34-1, ISO 3046, VDE 0530, BS 4999, BS 5000. The generating sets are manufactured by a full accredited ISO 9001 NQA



#### CONTROL SYSTEMS

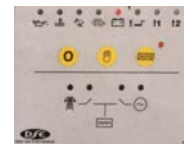
Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

##### Common Instruments

- 3 Ammeters
- Hours run meter
- Volt - frequencymeter (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 over load protection
- Engine water heater control
- DSE 704 Module Features
- Three phases mains sensing
- Engine protection
- Automatic engine starting and stoping
- Simple push-button controlled operation
- Off / Auto / Manual modes
- Micro processor based design
- Configureable via front panel
- Configureable timer settings
- Adjustable mains fail voltage level
- Mains / Generator, change - over contactor control
- External remote start input



DSE 704

##### b) Status and fault conditions displayed by LED illumination:

- High engine temperature, shutdown
- Low oil pressure, shutdown
- Over speed, shutdown
- Charge alternator fault, warning
- Indications for mains / generator and their contactor status

##### 2 - Manual Start Control Panel - ME 40

Control with DSE 701 Module

##### a) DSE 701 Module Features

- Engine supervision and protection
- Key switch Off / Manual start positions
- Manual start push button
- Module Emergency LED's
- High engine temperature, shutdown
- Low oil pressure, shutdown
- Over speed, shutdown
- Charge failure, warning



DSE 701

##### 2 - 1 Alternator Circuit Breaker (for Manual Model)

## TECHNICAL DATA

DIESEL GENERATING SETS 230/400 V - 50 Hz												
GROUP	MODEL			AJD 165			AJD 170			AJD 200		
	Power Pf. 0,8	Standby	kVA	165			170			200		
			kW	132			136			160		
	Prime	Prime	kVA	150			154			180		
kW			120			123			144			
DIESEL ENGINE	Engine Make			John Deere			John Deere			John Deere		
	Model			6068 H			6068 H			6068 H		
	Gross Engine Power Output at rated rpm		kWm	153			153			183		
			hp	205			205			245		
	Aspiration and Air Cooling			Turbo Charged & Aftercooled								
	Cubic capacity		Litre	6,8			6,8			6,8		
	Cylinders and Build			6 - In line			6 - In line			6 - In line		
	Engine Rated Speed		rpm	1500			1500			1500		
	Bore and Stroke		mmxmm	106x127			106x127			106x127		
	Compression Ratio			17.0:1			17.0:1			17.0:1		
	Governor Type			Mechanical			Mechanical			Mechanical		
	Fuel Consumption		Load	1/2	3/4	Full	1/2	3/4	Full	1/2	3/4	Full
			L/h	17,5	25	33,5	17,5	25	33,5	21	31,5	41
	Fuel Tank Capacity		Litre	370			370			370		
	Total Oil Capacity		Litre	19			19			34		
	Coolant Capacity (Raditor and Engine)		Litre	34,5			34,5			40		
	Air Intake Engine		m <sup>3</sup> /min	11,2			11,2			11,5		
Exhaust Gas Flow		m <sup>3</sup> /min	23,1			23,1			32,9			
Exhaust Gas Temperature		°C	575			575			603			
Alternator Voltage Regulation			± % 1			± % 1			± % 1			

AT-14.09.05/MAF-5994

### Open Types





















Dimensions (length x width x height)	m	2,4x1,13x1,58			2,3x1,13x1,57	
Dry weight	kg	1430		1490		1550

### Sound Attenuated Type

Canopy Model	ASM6					
Dimensions (length x width x height)	m	3,27x1,16x1,85				
Weight	kg	2030		2090		2135

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
-  Engine oil heater
-  Low fuel level alarm
-  Tool kit
-  Over sized alternator
-  Electronic governor control
-  Charge voltmeter
-  Charge ammeter
-  Anti condensation heater
-  4 pole contactor
-  Hand transfer pump
-  Sump oil drain pump
-  Oil temperature shutdown
-  Jacket water heater (for manual models)
-  Automatic Transfer Switch by contactor
-  Alternator circuit breaker (for automatic models)
-  Residential type silencer
-  Enclosure or sound proof canopy
-  Trailer



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