

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 90	AJD 110	AJD 132
Power Pf. 0,8	Standby	kVA	90	110	132
	Prime	kVA	80	100	120

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, ISO 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

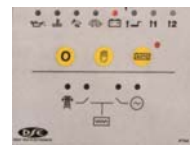
Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

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
- ##### a) 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

b) 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 90			AJD 110			AJD 132		
	Power Pf. 0,8	Standby	kVA	90			110			132		
			kW	72			88			105		
	Prime	Prime	kVA	80			100			120		
kW			64			80			96			
DIESEL ENGINE	Engine Make			John Deere			John Deere			John Deere		
	Model			4045 T			4045 H			6068 T		
	Gross Engine Power Output at rated rpm		kWm	83			100			120		
			hp	111			134			161		
	Aspiration and Air Cooling			Turbo Charged			Turbo Charged&Aftercooled			Turbo Charged		
	Cubic capacity			Litre			4,5			6,8		
	Cylinders and Build			4 - In line			4 - In line			6 - In line		
	Engine Rated Speed			rpm			1500			1500		
	Bore and Stroke			mmxmm			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	10	14	19,5	11,5	16,5	23,5	13,5	18,5
	Fuel Tank Capacity			Litre			220			370		
	Total Oil Capacity			Litre			12			19		
	Coolant Capacity (Raditor and Engine)			Litre			21,5			30,3		
	Air Intake Engine			m ³ /min			5,6			7		
Exhaust Gas Flow			m ³ /min			12,3			18,7			
Exhaust Gas Temperature			°C			524			545			
Alternator Voltage Regulation			± % 1			± % 1			± % 1			






















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Open Types					
Dimensions (length x width x height)	m	2,2x1,0x1,55		2,18x1,0x1,55	2,35x1,15x1,55
Dry weight	kg	1185		1225	1370

Sound Attenuated Type				
Canopy Model		ASM5	ASM6	
Dimensions (length x width x height)	m	3,12x1,06x1,75		
Weight	kg	1620	1690	1970

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

OPTIONAL EQUIPMENTS

-  Fuel-water separator filter
-  Remote radiator (Except AJD 110)
-  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
-  Automatic Transfer Switch by contactor
-  Alternator circuit breaker
-  (only for automatic models)
-  Residential type silencer
-  Enclosure or sound proof canopy
-  Trailer



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