

### 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 33	AJD 44	AJD 70
Power Pf. 0,8	Standby	kVA	33	44	70
	Prime	kVA	28	40	63

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 ISO 3046, BS 5514.

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.

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
- 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)
- 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 resins

#### 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: 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

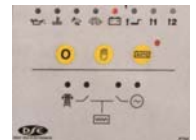
Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

##### 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

##### 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

##### 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

##### 2 - 1 Alternator Circuit Breaker

(for Manual Model)



DSE 701

## TECHNICAL DATA

DIESEL GENERATING SETS 230/400 V - 50 Hz												
GROUP	MODEL			AJD 33			AJD 44			AJD 70		
	Power Pf. 0,8	Standby	kVA	33			44			70		
			kW	26,4			35			56		
	Prime	Prime	kVA	28			40			63		
kW			22.4			32			50.4			
DIESEL ENGINE	Engine Make			John Deere			John Deere			John Deere		
	Model			3029 D			4039 D			4039 T		
	Gross Engine Power Output at rated rpm		kWm	31			40			63		
			hp	42			54			85		
	Aspiration and Air Cooling			Natural aspiration			Natural aspiration			Turbocharged		
	Cubic capacity			Litre			2,9			3,9		
	Cylinders and Build			3 - In line			4 - In line			4 - In line		
	Engine Rated Speed			rpm			1500			1500		
	Bore and Stroke			mmxmm			106x110			106x110		
	Compression Ratio			17.8:1			17.8:1			17.8:1		
	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	3,6	5	7	5	7,5	9	7	10,5
	Fuel Tank Capacity			Litre			115			132		
	Total Oil Capacity			Litre			6			9,5		
	Coolant Capacity (Raditor and Engine)			Litre			12			21,5		
	Air Intake Engine			m <sup>3</sup> /min			1,7			2,4		
Exhaust Gas Flow			m <sup>3</sup> /min			4,7			6,7			
Exhaust Gas Temperature			°C			555			546			
Alternator Voltage Regulation			± % 1			± % 1			± % 1			





















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Open Types					
Dimensions (length x width x height)	m	1,6 x 0,88 x 1,30		1,86 x 0,93 x 1,33	1,86 x 0,93 x 1,33
Dry weight	kg	800		890	1020

Sound Attenuated Type					
Canopy Model		ASM3		ASM4	
Dimensions (length x width x height)	m	2,12 x 0,92 x 1,48		2,5 x 0,97 x 1,57	
Weight	kg	1000		1230	1345

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
-  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)
-  Special type silencer (residential, critical)
-  Enclosure, sound proof canopy
-  Trailer



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