

### 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 275
Power Pf. 0,8	Standby	kVA	275
	Prime	kVA	250

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

#### 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 SYSTEM

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

##### Control Modules Common Features

- Automatic controls generating set, start and shutdown
- Front panel programming of the module settings
- Remote communication via RS 232 port or RS 485 "modbus" output.
- Scrolling digital LCD display
- Event logging of shutdown alarms

##### Common Metering via LCD display

- Generator Volts (F-F / F-N)
- Generator Amperes (L1, L2, L3)
- Generator Frequency (Hz)
- Generator kVA
- Generator kW
- Generator Cos
- Engine oil pressure (PSI & Bar)
- Engine Temperature (°C & °F)
- Engine speed RPM
- Engine hours run
- Plant battery volts

##### Common Alarms

- Under / over generator volts
- Under / over generator frequency
- Over current
- Low oil pressure
- High engine temperature
- Under / over speed
- Low coolant level
- Fail to start
- Fail to stop
- Emergency Stop
- Charge fail
- Low / high battery volts

##### I - Auto Mains Failure Control System P 2020

- Control with DSE model 5220 module
- Static battery charger
- Emergency stop push button

##### Additional Features

- Monitoring AC mains supply
- Provides signal to change over switch gear
- Easy push button control
- Stop / Reset - Auto - Manual - Test - Start

##### Additional Metering

- Mains volts (F-F / F-N)
- Mains Frequency (Hz)

##### Additional Alarms

- Under / over mains volts
- Under / over mains frequency
- Can data fail
- Can ECU fail

##### 2 - Auto Start Control System P 2010

- Control with DSE model 5010 module
- Emergency stop push button

##### Additional Features

- Provides signal to load transfer
- Easy push button control
- Stop / Reset - Auto - Manual - Test - Start



DSE 5220



DSE 5010

## TECHNICAL DATA

DIESEL GENERATING SETS 230/400 V - 50 Hz						
GROUP	MODEL			AJD 275		
	Power Pf. 0,8	Standby	kVA	275		
			kW	220		
	Prime	Prime	kVA	250		
kW			200			
DIESEL ENGINE	Engine Make			John Deere		
	Model			6081 H		
	Gross Engine Power Output at rated rpm		kWm	268		
			hp	359		
	Aspiration and Air Cooling			Turbo Charged & Aftercooled		
	Cubic capacity		Litre	8,1		
	Cylinders and Build			6 - In line		
	Engine Rated Speed		rpm	1500		
	Bore and Stroke		mmxmm	116x129		
	Compression Ratio			15.7:1		
	Governor Type			Mechanical		
	Fuel Consumption		Load	1/2	3/4	Full
			L/h	28	41	55
	Fuel Tank Capacity		Litre	420		
	Total Oil Capacity		Litre	32		
	Coolant Capacity (Raditor and Engine)		Litre	44		
	Air Intake Engine		m <sup>3</sup> /min	17,3		
Exhaust Gas Flow		m <sup>3</sup> /min	47,3			
Exhaust Gas Temperature		°C	703			
Alternator Voltage Regulation			± % 1			

AT:14.09.05/MAF:5095

### Open Types





















Dimensions (length x width x height)	m	2,9x1,15x1,87
Dry weight	kg	2130

### Sound Attenuated Type

Canopy Model		ASM7
Dimensions (length x width x height)	m	4,0x1,21x2,05
Weight	kg	2880

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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