



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 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;
- **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
- **Control Modules Common Features**
- Generator Volts(F-F/F-N)
- Generator Amperes(L1,L2,L3)
- Generator Frequency (Hz)
- Generator kVA
- Generator kW
- Generator Cos j
- Engine Temperature (Cantigrade & Fahrenheit)
- Engine Speed RPM
- Engine hours run
- Plant attery volts
- **XCommon Alarms**
- Under / over generator volts
- Under / over generator frequency
- Over current

- Low oil pressure
- High engine temperature
- Under / over speed
- Low coolantlevel
- Fail to start
- Fail to stop
- Emergency stop
- Charge fail
- Low / High battery volts
- **Auto Mains Failure Control System P2020**
- Control with DSE model 5220
- 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
- **Auto Start Control System P2010**
- Control with DSE model 5210 module
- Emergency stop push button
- **Additional Features**
- Provides signal to load transfer
- Easy pushbutton control
- Stop / Reset-Auto-Manual-Test-Start

TECHNICAL DATA			
Diesel Generating Sets 230/400 V - 50 Hz			
G R O U P	MODEL		AJD 275
	Power Pf. 0,8		275
			220
		250	
		200	
D I E S E L E N G I N E	Engine Make		John Deere
	Model		6081 H
	Gross engine power output at rated rpm		kWm hp 268 359
	Aspiration and Cooling		Turbo charged & Air to air
	Cylinders Capacity		Lt 8.1
	Cylinders and Build		6 In line
	Engine Speed		rpm 1500 rpm
	Bore and Stroke		mmxmm 116 x 129
	Compression Ratio		15.7:1

Governor		Mechanical		
Fuel Consumption	Load L/hr	1/2	3/4	Full
		28	41	55
Fuel Tank Capacity	Lt	420		
Oil Capacity	Lt	32		
Water Capacity	Lt	44		
Air Intake - Engine	m ³ /min	17.3		
Exhaust Gas Flow	m ³ /min	47.3		
Alternator Voltage Regulation		± %1		

OPEN TYPES		
Dimensions (length x width x height)	mm	2900x1150x1870
Dry weight	kg	2215

SOUND ATTENUATED TYPE		
Canopy Model		ASM 7
Dimensions (length x width x height)	mm	4000 x 1210 x 2050
Dry weight	kg	2965

* 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