

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 shutdown functions testing.
- ✓ Full engineered with a wide range of options and accessories. Canopy, soundproof canopy and on road trailer.



400 / 230 V - 50 Hz	Generating Set Model		AJD 220	AJD 275
Power Pf. 0,8	Standby	kVA	220	275
	Prime	kVA	200	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 cycle, water cooled, turbo charged and intercooled.
- 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 bellows.
- 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.
- Stator winding with 2 / 3 pitch for improved harmonics.
- 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.
- All metal canopy parts are painted by electrostatic polyester powder paint.
- Exhaust silencer manufactured from aluminium plated steel.
- 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.
- Thermally insulated engine exhaust system.

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 Szutest.



CONTROL SYSTEM

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

1. Auto Mains Failure Control System P2020:

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

Control Module Features: DSE 5220

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

Metering via LCD Display:

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

Alarms:

- Under / Over generator volts.
- Under / Over generator frequency.
- Over current.
- Low oil pressure.
- High engine temperature.
- Under / Over speed.
- Under / Over mains volts.
- Can data fail.
- Low coolant level.
- Fail to start.
- Fail to stop.
- Emergency Stop.
- Charge fail.
- Low / High battery volts.
- Under / Over mains frequency.
- Can ECU fail.

2. Power Outlet Terminal Board Mounted on the Genset Base Frame.



DSE 5220

TECHNICAL DATA

DIESEL GENERATING SETS 400 / 230 V - 50 Hz

GROUP	MODEL			AJD 220			AJD 275		
	Power Pf. 0,8	Standby	kVA	220			275		
			kW	176			220		
	Prime	kVA	200			250			
		kW	160			200			
DIESEL ENGINE	Engine Make			John Deere			John Deere		
	Model			6081 H			6081 H		
	Gross Engine Power Output (at rated rpm)		kWm hp	268			268		
				359			359		
	Aspiration and Cooling			Turbo Charged & Charge Air Cooled			Turbo Charged & Charge Air Cooled		
	Cubic Capacity		Liter	8,1			8,1		
	Cylinders and Build			6 - In Line			6 - In Line		
	Engine Rated Speed		rpm	1500			1500		
	Bore and Stroke		mm. x mm.	116 x 129			116 x 129		
	Compression Ratio			15.7:1			15.7:1		
	Governor Type			Mechanical			Mechanical		
	Fuel Consumption		Load l / h.	1 / 2	3 / 4	Full	1 / 2	3 / 4	Full
				25	37	50	28	41	55
	Fuel Tank Capacity		Liter	420			420		
	Total Oil Capacity		Liter	32			32		
	Coolant Capacity (Raditor and Engine)		Liter	44			44		
	Air Intake Engine		m ³ / min.	17,3			17,3		
	Exhaust Gas Flow		m ³ / min.	47,3			47,3		
Exhaust Gas Temperature		°C	703			703			
Alternator Voltage Regulation			± % 1			± % 1			

OPEN TYPES			
Dimensions (length x width x height)	m.	2,9 x 1,15 x 1,9	2,9 x 1,15 x 1,9
Dry Weight	kg.	2020	2120

SOUND ATTENUATED TYPES			
Dimensions (length x width x height)	m.	4,0 x 1,21 x 2,0	4,0 x 1,21 x 2,0
Dry Weight	kg.	2610	2860

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

OPTIONAL EQUIPMENTS

Diesel Engine

- Electronic governor control.
- Oil heater.

Alternator

- 3 pole outlet circuit breaker.
- Oversized alternator.
- Anti - condensation heater.

Panel

- Charge ammeter.
- Transfer switch 3 pole.
- Transfer switch 4 pole.
- Automatic synchronising and power control system.
- Earth fault, single set.



Accessories

- Bulk fuel tank.
- Automatic fuel filling system.
- Fuel water separator filter.
- Manual fuel filling system.
- Low fuel level alarm.
- Residential silencer.
- Enclosure canopy.
- Sound proof canopy.
- Trailer.
- Manual oil drain pump.
- Tool kit for maintenance.

Aksa Jeneratör Sanayi A.S. Gülbahar Caddesi 1. Sokak 34212 Güneşli - İstanbul / Turkey
Tel: +90 212 478 66 66 (pbx) Fax: +90 212 657 55 16 e-mail: aksa@aksa.com.tr www.aksa.com.tr