

AJD77-6





Sa POWER



DIESEL GENERATING SET - 60 Hz-3 Phase

MODEL			AJD77-6		
VOLTAGE		V	208/120	380/220	480/277
Power Pf. 0.8	Standby	kVA	96	94	98
		kW	77	75	78
	Prime	kVA	86	85	89
		kW	69	68	71

Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046. 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.

✓ High quality, reliable and complete power unit

✓ Compact design

- ✓ Easy start and maintenance possibility
- Every generating set is subject to a comprehensive test program which includes full load testing, checking and provision of all control and safety shut down functions testing
- ✓ Fully engineered with a wide range of options and accessories: Canopy, sound proof canopy and off-road trailer



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



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ENGINE

JOHN DEERE				
Model		4045TF220		
Engine Power Output	kWm	93		
at rated rpm	HP	125		
Aspiration and Cooling		Turbocharged		
Total Displacement	Litre	4.5		
No. of Cylinders and Build		4,In-line		
Engine Speed	rpm	1800		
Bore and Stroke	mmxmm	106 x 127		
Compression Ratio		17.0:1		
Governor		Mechanical		
Fuel Consumption at 100% load	L/hr	21.2		
Fuel Consumption at 75% load	L/hr	16.1		
Fuel Consumption at 50% load	L/hr	11.3		
Fuel Tank Capacity	Litre	Open:240/Canopy:240		
Oil Capacity	Litre	13.2		
Coolant Capacity	Litre	8.5		
Radiator Cooling Air	m³/min	129.6		
Air Intake – Engine	m³/min	6.5		
Exhaust Gas Flow	m³/min	17.4		

✓ Heavy duty John Deere diesel engine

✓ Four stroke, water cooled, Turbocharged

✓ Direct injection fuel system

✓ Mechanical Governor system

✓ 12 V D.C. starter and charge alternator

✓ Replaceable fuel filter, oil filter and dry element air filter

✓ Cooling radiator and fan

 \checkmark

- Starter battery (with lead acid) including Rack and Cables Flexible fuel connection hoses and manual oil sump drain valve \checkmark
- ✓ Industrial capacity exhaust silencer and steel bellows
- ✓ Operation manuals and circuit diagram documents

ALTERNATOR

Design	Brushless single bearing, revolving field
Stator	2/3 pitch
Rotor	Single bearing, flexible disc
Insulation System	Class H
Standard Temperature Rise	125 - 163°C Continuous
Exciter Type	Self Excited
Phase Rotation	A (U), B (V), C (W)
Alternator Cooling	Direct drive centrifugal blower fan
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non distorting balanced linear load < 5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	<2%

✓ Brushless, single bearing system, flexible disc, 4 poles

✓ Insulation class H

✓ Standard degree of protection IP23

✓ Self-exciting and self-regulating

✓ All wound components are impregnated with materials and processes designed specifically

✓ Solid state Automatic Voltage Regulator

✓ Stator winding with 2/3 pitch for improved harmonics

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 Panel

OUR FUTURE

- Panel equipments:
- ✓ Control with AMF module
- ✓ Static battery charger
- ✓ Emergency stop push button

a) Generating set control module DSE 6020 features:

- ✓ The module is used to monitor main supply and
- starts and stops of a standby generating set ✓ Micro-processor based design
- Automatic control of main and generator contactors
- ✓ Monitors engine performance and AC power output LED alarm indication
- Front panel configuration of timers and alarm trip points
- ✓ CAN and magnetic pick-up versions(specify on ordering)
- ✓ 4 digital inputs/3 analogue inputs
- ✓ 6 outputs (4 configurable on Magnetic Pick-up, 6 configurable on CANbus version)
- ✓ Easy push button control STOP/RESET - MANUAL - AUTO - TEST - START

b) Metering via LED display:

- Generator Volts (L-L / L-N)
- ✓ Engine oil pressure (PSI-Bar)
- ✓ Generator Ampere (L1,L2,L3)
- ✓ Engine temperature (° C&° F)
- ✓ Generator Frequency (Hz)
- ✓ Plant battery volts
- ✓ Engine hours run
- ✓ Mains Volts (Ph-Ph/Ph-N)

Generator kVA Generator kW Generator Cos (o)

DSF 6020

c) Alarms:

- Over and Under Speed
- Low and High Battery Volt.
- 1 Start and Stop Failure
- Charge fail
- Over Current
- ✓ Under / Over Generator Voltage
- ✓ Low Oil Pressure
- Emergency stop ~

✓ High engine temperature

- d) LED indications
- ✓ Mains available
- Generator available ~
- Mains on load
- ✓ Generator on load

2. Power Outlet Terminal Board Mounted on the Gen-set Base Frame

OPTIONAL EQUIPMENTS

Diesel Engine

✓ Oil heater

Alternator

- 3/4 Pole Output Circuit Breaker
- ✓ Anti-condensation Heater

Panel

- ✓ Charge ammeter
- ✓ Transfer Switch 3Pole
- ✓ Transfer Switch 4 Pole
- ~ Earth Fault ,single set

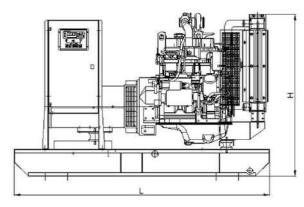
Accessories

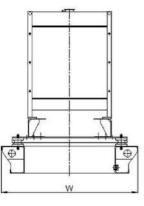
- ✓ Bulk fuel tank
- ✓ Automatic filling system
- ✓ Fuel-water separator filter
- ✓ Low fuel level alarm
- ✓ Residential silencer
- ✓ Enclosure or sound proof canopy
- ✓ Trailer
- ✓ Manual oil drain pump
- ✓ Tool kit for maintenance





CHASSIS





 $\checkmark\,$ The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame

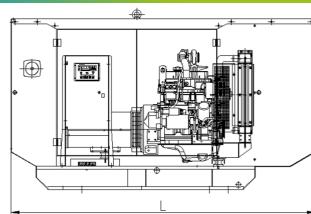
- $\checkmark\,$ Anti-vibration pads are fixed between the engine/ alternator feet and the base frame
- Base frame design incorporates an integral fuel tank (Up to 750 kVA)
- ✓ The generating set can be lifted or carefully pushed / pulled by the base frame

✓ Dial type fuel gauge and drain plug on the fuel tank

DIMENSIONS

OPEN TYPE					
DIMENSIONS (LxWxH)	mm	2150x1050x1458			
DRY WEIGHT	kg	930			
	-				
SOUN	D ATTENU	JATED TYPE			
SOUN DIMENSIONS (LxWxH)		JATED TYPE 3100x1104x1741			

CANOPY



- ✓ All canopy parts are designed with modular principles
- ✓ Without welding assembly
- ✓ Doors on each side
- ✓ All metal canopy parts are painted by electrostatic polyester powder paint

SEDE PRINCIPAL:

- Exhaust silencer is protected against environment influences
 Thermally insulated engine exhaust system
- ✓ Emergency stop push button is installed outside of the canopy
- ✓ Easy lifting and moving
- Easy maintenance and operation
- Easy maintenance and operation





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