

AVK/John Deere Diesel Generators from 90-132kVA

AVK/John Deere Diesel Generators
 From 90 to 132kVA, AVK | SEG (UK) LTD can supply you with a quality, reliable power source to accompany your project. Over this power range we can supply you with a set configured to your specifications, our scope of work normally includes the installation and commissioning of your power plant with full project management.



231/400 V-50Hz	Genset Model	AJD90	AJD110	AJD132
Power Pf. 0.8	Standby kVA	90	110	132
	Prime kVA	80	100	120

Standby: Continuous running at variable loads for duration of an emergency. No overload is permitted. Prime: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

Design Specifications

The AVK/John Deere range of complete power units are built to a high quality, very reliable, and have a long life. The sets are of a compact design which are easy to start and full maintenance is available. Every generating set is subjected to a comprehensive test program which includes full load testing, checking and proving of all control and safety shutdown functions. The sets are quality engineered and available with a wide range of options and accessories including acoustic close fit canopies, ISO containers on road trailers.

Engine Specification

- JOHN DEERE heavy duty diesel engine
- 4 stroke, water cooled, direct injection fuel system
- Mechanical governor control system
- Changeable wet type cylinder liners
- 12V.D.C starter and charge alternator
- Changeable dry type air filter
- Cooling radiator
- Flexible fuel connection hoses and oil drain valve

- Industrial capacity exhaust silencer and expansion joint
- Starter battery (with lead acid)
- Jacket water heater (at automatic models)
- Operation manuals and circuit diagrams documents

Alternator Specification

- Brushless, single bearing system, 4 poles
- Isolation system class H, VDE 0530
- Standard degree of protection of enclosure IP21-23, DIN 40050
- Self-exciting and regulation
- Automatic voltage regulator

Base Frame Specification

- Steel Chassis and anti-vibration pads
- Base frame design incorporates an integral fuel tank
- The genset can be lifted or manoeuvred into position by the final base frame
- Dial type fuel gauge and drain bung

Canopy Specification

- All canopy parts are designed with modular principles
- Without welding assembly
- To enable for easy maintenance and operation
- To enable for lifting
- All canopy parts are painted by electrostatic polyester powder paint
- Exhaust silencer is protected against environmental conditions
- Emergency stop button installed on canopy

Quality Standards

The equipment meets the following standards: VDE0530, BS4999, BS5000, IEC34, ISO3046. The genset is manufactured by a full accredited ISO9001 TUV CERT.

For more information on our full range of Diesel Generators and UPS systems or for a full quotation, please telephone AVK | SEG (UK) LTD on 01628 503900.



AVK/JOHN DEERE/GENERATORS

90-132 kVA

Specification

DIESEL GENERATING SETS 231/400V – 50Hz						
GROUP	MODEL			AJD90	AJD110	AJD132
	Power Pf. 0.8	Standby	kVA	90	110	132
			kW	72	88	105
	Prime	Prime	kVA	80	100	120
kW			64	80	96	
DIESEL ENGINE	Engine Make			John Deere	John Deere	John Deere
	Model			4045T	4045H	6068T
	Engine Output (Standby)		Net kW	82	96.5	115
			Hp	110	129	154
	Aspiration and cooling			Turbo	Turbo AC*	Turbo AC*
	Cylinders Volume (L)			4.5	4.5	6.8
	Cylinders and Build			4 – in line	4 – in line	6 – in line
	Engine Speed (rpm)			1500	1500	1500
	Bore and Stroke (mm x mm)			106 x 127	106 x 127	106 x 127
	Compression Ratio			17.0:1	17.0:1	17.0:1
	Governor			Mechanical	Mechanical	Mechanical
	Fuel Injection System			Direct	Direct	Direct
	Fuel Consumption at 75% load (Lt/hr)			14.4	16.5	18.5
	Fuel Tank Capacity (L)			220	220	370
	Oil Capacity (L)			12	12	19
	Coolant Capacity (L)			21.5	30.3	25.5
	Air Intake – Engine (m ³ /min)			5.6	7	8.9
	Exhaust Gas Flow (m ³ /min)			12.3	18.7	19.1
Exhaust Temperature (°C)			524	545	575	
Exhaust Pipe's Diameter (inch)			4	4	4	
Alternator Voltage Regulation			± %1	± %1	± %1	

*AC: Aftercooler

OPEN TYPES

Dimensions (L x W x H) (mm)	2150 x 1000 x 1480	2150 x 1000 x 1480	2300 x 1100 x 1530
Dry Weight (kg)	1185	1300	1370

CANOPIED TYPES

Canopy Model	ASM5		ASM6
Dimensions (L x W x H) (mm)	3100 x 1000 x 1690		3250 x 1100 x 1840
Weight (kg)	1435	1565	1970
Sound Level at full load (dB(A) @1m)	85		

OPTIONAL EQUIPMENT

- Fuel-water separator filter
- Remote radiator
- Automatic/manual fuel filling system
- Engine oil heater
- Electronic governor control
- Low fuel level alarm
- Charge voltmeter
- Charge ammeter
- Anti condensation heater
- Trailer
- Alternator thermal magnetic circuit breaker (Automatic models only)
- 4 pole contactor
- Special type silencer
- Enclosure, sound proof canopy
- Low water level alarm (standard for AJD275)

AVK|SEG (UK) LTD
Power Systems House, Malvern Road
Maidenhead
Berkshire
SL6 7QY

Telephone: 01628 503900 Fax: 01628 503999
www.avk-seg.co.uk email: powersystems@avk-seg.co.uk