

## AVK/VOLVO/DIESEL GENERATORS

515-550kVA

### AVK/Volvo Diesel Generators from 515-550kVA

**AVK/Volvo Diesel Generators** From 515 to 550kVA, 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.

#### Design Specifications

The AVK/Volvo 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 or on road trailers.

#### Engine Specification

- VOLVO PENTA heavy duty diesel engine
- 4 stroke, water cooled, direct injection fuel system
- 4 valves per cylinder
- Changeable wet type cylinder liners
- 24V.D.C Starter and charge alternator
- Changeable dry type air filter
- Cooling radiator
- Flexible fuel connection hoses and oil drain manual pump



	Genset Model	AVP515	AVP550
Power Pf. 0.8	Standby kVA	515	550
	Prime kVA	470	500

Standby: Continuous running at variable loads for duration of an emergency. No overload is permitted. Prime: Continuous running in line with the recommended ISO 8528 for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

- 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
- Rotating inductor is fitted with a damper cage
- The windings have a 2/3 pitch in order to reduce the harmonic content of voltage

#### Base Frame Specification

- Heavy duty profile type steel chassis and anti-vibration pads
- Internal fuel tank
- Lifting eyes allows easy transportation by a crane

#### 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
- Fire resistant material for attenuating sound

#### 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 01494 435600.**

# AVK/VOLVO/DIESEL GENERATORS

**515-550 kVA**

## Specification

DIESEL GENERATING SETS 231/400V – 50Hz					
GROUP	MODEL			AVP515	AVP550
	Power Pf. 0.8	Standby	kVA	515	550
			kW	412	440
	Prime	Prime	kVA	470	500
kW			376	400	
DIESEL ENGINE	Engine Make			Volvo Penta	Volvo Penta
	Model			TAD1630GE	TAF1631GE
	Engine Output (Standby)		kW	440	478
			hp	589.6	640.5
	Aspiration and cooling			Turbo-AC*	Turbo-AC*
	Cylinders Capacity (L)			16.12	16.12
	Cylinders in Build			6-in line	6-in line
	Engine Speed (rpm)			1500	1500
	Bore and Stroke (mmxmm)			144 x 165	144 x 165
	Compression Ratio			15.0:1	15.0:1
	Governor			Electronic	Electronic
	Fuel Injection System			Direct	Direct
	Fuel Consumption at 75% load (Lt/hr)			72.1	79.6
	Fuel Tank Capacity (L)			520	520
	Oil Capacity (L)			64	64
	Water Capacity (L)			64	64
	Air Flow – Radiator (m <sup>3</sup> /s)			6.3	5.2
	Air Intake – Engine (m <sup>3</sup> /min)			34.8	34.3
	Exhaust Gas Flow (m <sup>3</sup> /min)			90.3	99
Exhaust Temperature (°C)			510	565	
Total heat radiated to ambient (kW)			24	26	
Alternator Voltage Regulation			± %1	± %1	

\*AC: Aftercooler

### OPEN TYPES

Dimensions (L x W x H) (mm)	3600 x 1300 x 1970	3600 x 1300 x 1970
Dry Weight (kg)	3470	3500

### CANOPIED TYPES

Canopy Model	AS710	AS710
Dimensions (L x W x H) (mm)	5500 x 1600 x 2530	5500 x 1600 x 2530
Weight (kg)	4900	4930
Sound Level at full load (dB(A) @1m)	85	

### OPTIONAL EQUIPMENT

- Fuel-water separator filter
- Automatic/manual fuel filling system
- Engine oil heater
- Low fuel level alarm
- Charge voltmeter
- Charge ammeter
- Anti condensation heater
- Special type silencer
- Alternator thermal magnetic circuit breaker (Automatic models only)
- Enclosure, sound proof canopy
- Trailer

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