

AVK/Cummins Diesel Generators from 500-820kVA

AVK/Cummins Diesel Generators

From 500 to 820kVA, 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/Cummins 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

- CUMMINS heavy duty diesel engine
- 4 stroke, water cooled, direct injection fuel system
- Electronic governor control system
- 4 valves per cylinder
- Replaceable wet type cylinder liners
- 24V D.C starter & charge alternator
- Replaceable cartridge type dry air filter
- Radiator and cooling fan



231/400 V-50Hz	Genset Model	AC500	AC550	AC710	AC820
Power	Standby kVA	500	550	703	820
Pf. 0.8	Prime kVA	450	500	638	750

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. **Ratings:** All kW Power ratings based on a 40° ambient temperature reference

- Flexible fuel connection hoses and manual oil drain valve
- Industrial capacity exhaust silencer and expansion joint
- Starter battery (lead acid)
- Jacket water heater

Alternator Specification

- Screen protected and drip-proof
- Brushless alternator
- Self-exciting, self-regulating and automatic voltage regulator
- Class H insulation
- Enclosure is IP21 or 23

Base Frame Specification

- The complete generator set is mounted on a heavy duty fabricated, steel base frame. Anti-vibration mountings are installed between the engine/alternator feet and the base frame
- Base frame incorporates integral fuel tank
- The genset can be lifted or manoeuvred into position by the final base frame

Canopy Specification

- All canopy parts are designed with modular principles
- Without welding assembly
- Easy maintenance and operation, lifting and moving
- 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. 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/CUMMINS/GENERATORS

500-820kVA

Specification

DIESEL GENERATING SETS 231/400V – 50Hz								
GROUP	MODEL			AC500	AC550	AC710	AC820	
	Power Pf. 0.8	Standby	kVA	500	550	703	820	
			kW	400	440	562	656	
	Prime	Prime	kVA	450	500	638	750	
kW			360	400	510	600		
DIESEL ENGINE	Engine Make			Cummins	Cummins	Cummins	Cummins	
	Model			KTA19G3	KTA19G4	VTA28G5	VTA28G6	
	Standby Power			kW	448	246	615	722
				Hp	600	330	825	968
	Aspiration and cooling			Turbo AC*	Turbo AC*	Turbo	Turbo AC*	
	Total Displacement (L)			18.9	18.9	28	28	
	No. of Cylinders and Build			6 – in line	16 – in line	12 – V type	12 – V type	
	Engine Speed (rpm)			1500	1500	1500	1500	
	Bore and Stroke (mm x mm)			159x159	159x159	140x152	140x152	
	Compression Ratio			13.9:1	13.9:1	13.1:1	13.1:1	
	Piston speed (m/s)			7.9	7.9	7.6	7.6	
	Governor			Electronic	Electronic	Electronic	Electronic	
	Fuel Injection System			Direct	Direct	Direct	Direct	
	Fuel Consumption at 75% load (Lt/hr)			73	82	104	133	
	Fuel Tank Capacity (L)			550	550	920	920	
	Oil Capacity (L)			50	50	83	83	
	Coolant Capacity (L)			92	92	176	176	
	Air Flow – Radiator (m ³ /s)			13.7	13	13.7	-	
	Air Intake – Engine (m ³ /min)			1750	1915	2974	3290	
	Exhaust Gas Flow (m ³ /min)			4842	5266	7153	7963	
Exhaust Temperature (°C)			524	538	493	489		
Total Heat Radiated to Ambient (kW)			58	64	84	90		
Alternator Voltage Regulation			± 1%	± 1%	± 1%	± 1%		

*AC: Aftercooler

OPEN TYPE

Dimensions (L x W x H) (mm)	3430x1300x2100	3430x1300x2100	3800x1380x2230	3990x1400x2130
Dry Weight (kg)	3760	3760	5220	5590

CANOPY TYPE

Canopy Model	AS710			
Dimensions (L x W x H) (mm)	5500x1600x2530			
Dry Weight (kg)	5380	5380	6850	7220
Sound Level (at full load) (7m/dB(A))	75	75	76	-

OPTIONAL EQUIPMENT

- Fuel-water separator filter
- Remote radiator
- Automatic fuel filling system
- Engine oil heater
- Alternator thermal magnetic circuit breaker
- Low fuel level alarm
- Charge voltmeter
- Charge ammeter
- Anti condensation heater
- 4 pole contactor
- Special type silencer
- Enclosure, sound-proofed canopy
- Trailer

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