

### AVK/Cummins Diesel Generators from 1030-1675kVA

#### AVK/Cummins Diesel Generators

From 1030 to 1675kVA, 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	AC1030-38	AC1126	AC1435	AC1675
Power	Standby kVA	1030	1123	1435	1675
Pf. 0.8	Prime kVA	930	1024	1280	1500

**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
- The genset can be lifted or manoeuvred into position by the final base frame

#### 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

1030-1675kVA

## Specification

DIESEL GENERATING SETS 231/400V – 50Hz							
GROUP	MODEL			AC1030-38	AC1126	AC1435	AC1675
	Power Pf. 0.8	Standby	kVA	1030	1126	1435	1675
			kW	824	900	1148	1340
	Prime	Prime	kVA	930	1024	1280	1500
kW			744	819	1024	1200	
DIESEL ENGINE	Engine Make			Cummins	Cummins	Cummins	Cummins
	Model			KTA38G3	KTA38G5	KTA50G3	KTA50GS8
	Standby Power		kW	895	970	1227	1429
			Hp	1200	1300	1645	1915
	Aspiration and cooling			Turbo AC*	Turbo AC*	Turbo AC*	Turbo AC*
	Total Displacement (L)			37.8	37.8	50.3	50.3
	No. of Cylinders and Build			12 – V type	12 – V type	16 – V type	16 – V type
	Engine Speed (rpm)			1500	1500	1500	1500
	Bore and Stroke (mm x mm)			159x159	159x159	159x159	159x159
	Compression Ratio			13.1:1	13.9:1	13.9:1	14.9:1
	Piston speed (m/s)			7.9	7.9	7.9	7.9
	Governor			Electronic - AI	Electronic - AI	Electronic - AI	Electronic - AI
	Fuel Injection System			Direct	Direct	Direct	Direct
	Fuel Consumption at 75% load (Lt/hr)			151	161	199	238
	Fuel Tank Capacity (L)			1250	1250	2000	2000
	Oil Capacity (L)			135	135	177	204
	Coolant Capacity (L)			280	280	315	375
	Air Flow – Radiator (m <sup>3</sup> /s)			25	24	27	27
	Air Intake – Engine (m <sup>3</sup> /min)			3330	4104	5778	5691
	Exhaust Gas Flow (m <sup>3</sup> /min)			9932	10983	13421	14537
Exhaust Temperature (°C)			507	499	520	499	
Total Heat Radiated to Ambient (kW)			110	125	130	199	
Alternator Voltage Regulation			± 1%	± 0.5%	± 0.5%	± 0.5%	

\*AC: Aftercooler

### OPEN TYPE

Dimensions (L x W x H) (mm)	4280x1760x2340	4310x1760x2340	4910x2110x2260	5100x2116x2560
Dry Weight (kg)	7680	7720	10500	12000

### CONTAINER TYPE

Container Model	30'		40'	
Dimensions (L x W x H) (mm)	9120x2430x2590			12190x2430x2590
Dry Weight (kg)	14300	14500	17500	19000
Sound Level (at full load) (7m/dB(A))	72	73	-	-

### OPTIONAL EQUIPMENT

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

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