

AVK/Cummins Diesel Generators from 710-820kVA

AVK/Cummins Diesel Generators

From 710 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 | AC710 | AC820 |
|----------------|--------------|-------|-------|
| Power | Standby kVA | 703 | 820 |
| Pf. 0.8 | Prime kVA | 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

710-820kVA

Specification

| DIESEL GENERATING SETS 231/400V – 50Hz | | | | | |
|--|---|---------|------|-------------|-------------|
| GROUP | MODEL | | | AC710 | AC820 |
| | Power Pf. 0.8 | Standby | kVA | | 703 |
| kW | | | | 562 | 656 |
| Prime | | kVA | | 638 | 750 |
| | | kW | | 510 | 600 |
| DIESEL ENGINE | Engine Make | | | Cummins | Cummins |
| | Model | | | VTA28G5 | VTA28G6 |
| | Standby Power | kW | | 615 | 722 |
| | | Hp | | 825 | 968 |
| | Aspiration and cooling | | | Turbo | Turbo AC* |
| | Total Displacement (L) | | | 28 | 28 |
| | No. of Cylinders and Build | | | 12 – V type | 12 – V type |
| | Engine Speed (rpm) | | | 1500 | 1500 |
| | Bore and Stroke (mm x mm) | | | 140x152 | 140x152 |
| | Compression Ratio | | | 13.1:1 | 13.1:1 |
| | Piston speed (m/s) | | | 7.6 | 7.6 |
| | Governor | | | Electronic | Electronic |
| | Fuel Injection System | | | Direct | Direct |
| | Fuel Consumption at 75% load (Lt/hr) | | | 104 | 133 |
| | Fuel Tank Capacity (L) | | | 920 | 920 |
| | Oil Capacity (L) | | | 83 | 83 |
| | Coolant Capacity (L) | | | 176 | 176 |
| | Air Flow – Radiator (m ³ /s) | | | 13.7 | - |
| | Air Intake – Engine (m ³ /min) | | | 2974 | 3290 |
| Exhaust Gas Flow (m ³ /min) | | | 7153 | 7963 | |
| Exhaust Temperature (°C) | | | 493 | 489 | |
| Total Heat Radiated to Ambient (kW) | | | 84 | 90 | |
| Alternator Voltage Regulation | | | ± 1% | ± 1% | |

*AC: Aftercooler

OPEN TYPE

| | | |
|-----------------------------|----------------|----------------|
| Dimensions (L x W x H) (mm) | 3800x1380x2230 | 3990x1400x2130 |
| Dry Weight (kg) | 5220 | 5590 |

CANOPY TYPE

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

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