

AC 703

aksa POWER GENERATION



230/400 V - 50 Hz	Generating Set Model	AC 703
Power Pf. 0,8	Standby kVA	703
	Prime kVA	638

Standby:Continuous running at variable load running position.It can run to main energy auxiliary.No overload is permitted on these ratings. In accordance with BS 5514, ISO 3046

Prime:Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.Contact us for the other running periods. In accordance with ISO 8528, ISO 3046.

DESIGN SPECIFICATIONS

- High quality, reliable and complete power unit
- Compact design
- Easy start and maintenance possibility
- Every generating set is subjected to a comprehensive test programme which includes full load testing and checking and providing of all control and safety shut down functions testing
- Full engineered with a wide range of options and accessories:Canopy,soundproof and on road trailer

STANDARD GENSET SPECIFICATIONS

ENGINE:

- CUMMINS heavy duty diesel engine
- Four cycle, water cooled, turbo charged and after cooled
- Electronic Governor Control System
- Direct injection fuel system
- Replaceable wet type cylinder liners
- 4 valves per cylinder
- 24 V D.C. starter and charge alternator
- Replaceable fuel filter ,oil filter and dry element air filter
- Cooling radiator and fan
- Starter battery(with lead acid) including Rack and Cables
- Flexible fuel connection hoses and manual oil sump drain pump
- Industrial capacity exhaust silencer and steel bellows
- Jacket water heater (at automatic models)
- Operation manuals and circuit diagram documents

ALTERNATOR:

- Brushless, single bearing system, 4 poles
- Insulation class H
- Standard degree of protection IP21 or IP23
- Self-exciting and self-regulating
- Stator winding with 2/3 pitch
- Impregnation with tropicalised epoxy varnish
- Solid state Automatic Voltage Regulator

CHASSIS:

- The complete genset is mounted as whole on a heavy-duty fabricated, steel base frame. Antivibration pads are fixed between the engine/ alternator feet and the base frame.
- Base frame design incorporates an integral fuel tank.
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Dial type fuel gauge and drain bung on the fuel tank

CANOPY:

- All canopy parts are designed with modular principles
- Without welding assembly
- All metal canopy parts are painted by electrostatic polyester powder paint
- Exhaust silencer is protected against environment influences
- Thermally insulated engine exhaust system
- Emergency stop push button is installed outside of canopy
- To enable for lifting easy maintenance and operation

QUALITY STANDARDS:

- The equipment meets the following standards: ISO 3046, VDE 0530, BS 4999, BS 5000, EN 60034-I, IEC 34. The generating set is manufactured by a full accredited NQA-ISO 9001.

WARRANTY:

- 12 months warranty from commissioning date as standard.

CONTROL SYSTEM:

- Control, supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows;
- Control Modules Common Features
- Automatic controls generating set, start and shutdown
- Front panel programming of the module settings
- Remote communication via RS 232 port or RS 485 "modbus" output.
- Scrolling digital LCD display
- Event logging of shutdown alarms
- Control Modules Common Features
- Generator Volts(F-F/F-N)
- Generator Amperes(L1,L2,L3)
- Generator Frequency (Hz)
- Generator kVA
- Generator kW
- Generator Cos j

- Engine Temperature (Cantigrade & Fahrenheit)
- Engine Speed RPM
- Engine hours run
- Plant attery volts
- XCommon Alarms
- Under / over generator volts
- Under / over generator frequency
- Over current
- Low oil pressure
- High engine temperature
- Under / over speed
- Low coolantlevel
- Fail to start
- Fail to stop
- Emergency stop
- Charge fail
- Low / High battery volts
- Auto Mains Failure Control System P2020
- Control with DSE model 5220
- Static battery charger
- Emergency stop push button
- Additional Features
- Monitoring AC mains supply
- Provides signal to change over switch gear
- Easy push button control
- Stop / Reset-Auto-Manual-Test-Start
- Additional Metering
- Mains volts (F-F / F-N)
- Mains frequency (Hz)
- Additional Alarms
- Under / over mains volts
- Under / over mains frequency
- Can data fail
- Can ECU fail
- Auto Start Control System P2010
- Control with DSE model 5210 module
- Emergency stop push button
- Additional Features
- Provides signal to load transfer
- Easy pushbutton control
- Stop / Reset-Auto-Manual-Test-Start

TECHNICAL DATA				
Diesel Generating Sets 230/400 V - 50 Hz				
G R O U P	MODEL			AC 703
	Power Pf. 0,8			703 562
				638 510
D	Engine Make			Cummins

I E S E L E N G I N E	Model		VTA 28 G5			
	Gross engine power output at rated rpm		kWm hp	612 820		
	Aspiration and Cooling			Turbo After Cooled		
	Cylinders Capacity		Lt	28		
	Cylinders and Build			12 - V 40°		
	Engine Speed		rpm	1500		
	Bore and Stroke		mmxmm	140x152		
	Compression Ratio			13.1:1		
	Governor			Electronic		
	Fuel Consumption		Load L/hr	1/2 73	3/4 104	Full 140
	Fuel Tank Capacity		Lt	900		
	Oil Capacity		Lt	83		
	Water Capacity		Lt	176		
	Air Intake - Engine		m³/min	50		
	Exhaust Gas Flow		m³/min	119		
Alternator Voltage Regulation			± %1			

OPEN TYPES		
Dimensions (length x width x height)	mm	3900x1410x2110
Dry weight	kg	5590

SOUND ATTENUATED TYPE		
Canopy Model		AK85
Dimensions (length x width x height)	mm	5800x1620x2530
Dry weight	kg	7190

* Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

OPTIONAL EQUIPMENTS

- * Fuel - Water separator filter
- * Engine oil heater
- * Residential silencer
- * Trailer
- * Automatic fuel filling system
- * Manual sump oil drain pump
- * Enclosure, Sound proof canopy
- * Low fuel level alarm

- * Charge ammeter
- * Main fuel tank
- * 4 pole contactor
- * Over sized alternator
- * Automatic Synchronising and power control system
- * Anti condensation heater for alternator
- * 3 pole alternator case circuit breaker (only for automatic models)
- * Tool kit
- * Automatic transfer switch by contactor or motorized circuit breaker