

AC 70

aksa POWER GENERATION



230/400 V - 50 Hz	Generating Set Model	AC 70
Power Pf. 0,8	Standby kVA	70
	Prime kVA	63

Standby: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046, BS 5514

Prime: Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528, BS 5514. Contact us for the other running periods. Power ratings based on a 40 °C ambient temperature reference

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: Electrical, mechanical, soundproof canopy and on mobile units

STANDARD GENSET SPECIFICATIONS

ENGINE:

- CUMMINS heavy duty diesel engine
- Four cycle, water cooled, turbo charged
- Mechanical Governor Control System
- Electronic Governor on AC 90
- Direct injection fuel system
- 12 Vdc 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 sump oil drain valve
- Industrial capacity exhaust silencer and steel bellow
- 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
- Self-exciting and self-regulating
- Stator winding with 2/3 pitch for improved harmonics
- Impregnation with tropicalised epoxy varnish
- Solid state Automatic Voltage Regulator

CHASSIS:

- The complete generating set 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
- Forklift pockets within base frame

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
- Easy lifting and moving
- Easy maintenance and operation

QUALITY STANDARDS:

- The equipment meets the following standards: ISO 3046, VDE 0530, BS 4999, BS 5000, 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:
- 1) Auto. Mains Failure Control Panel – P300
- Control Panel Equipments:
- Control panel with DSE 720 module
- Static battery charger
- Emergency stop push button
- a) Generating Set control module DSE720 features:
- The module is used to monitor a mains supply and automatically start a standby generator set.
- Scrolling digital LCD display
- Front panel configuration of timers and alarm trip points
- Easy push button control
- OFF/MANUAL/AUTO/TEST/START

- LCD display Scroll push button
- b) Metering via LCD Display
- Generator Volt (F-N)
- Generator Ampere (L1, L2, L3)
- Generator Frequency (Hz)
- Mains Volts (F-F/F-N)
- Engine Temperature
- Engine Oil Pressure
- Engine Speed
- Engine Hours run
- Plant Battery Volt
- c) Alarms
- Under generator voltage
- Over current
- Over Speed
- Under/Over mains volt
- Under/Over mains frequency
- Low oil pressure
- High Engine temperature
- Low battery volt
- Charge fail
- Start failure
- Emergency stop
- d) LED indications
- Mains Available
- Mains on load
- Generator available
- Generator on load

TECHNICAL DATA			
Diesel Generating Sets 230/400 V - 50 Hz			
G R O U P	MODEL		AC 70
	Power Pf. 0,8		70
			56
		63 50,4	
D I E S E L E N G I N E	Engine Make		Cummins
	Model		4 BT 3.9-G4
	Gross engine power output at rated rpm		kWm hp 64 85
	Aspiration and Cooling		Turbo Charged
	Cylinders Capacity		Lt 3.92
	Cylinders and Build		4 - in line
	Engine Speed		rpm 1500
	Bore and Stroke		mmxmm 102 x 120
Compression Ratio		16.5 : 1	

Governor		Mechanical			
Fuel Consumption		Load L/hr	1/2 8	3/4 11	Full 15
Fuel Tank Capacity		Lt	170		
Oil Capacity		Lt	11		
Water Capacity		Lt	19.2		
Air Intake - Engine		m ³ /min	4.3		
Exhaust Gas Flow		m ³ /min	11		
Alternator Voltage Regulation		± %1			

OPEN TYPES		
Dimensions (length x width x height)	mm	1860 x 900 x 1320
Dry weight	kg	890

SOUND ATTENUATED TYPE		
Canopy Model		ASM4
Dimensions (length x width x height)	mm	2500 x 970 x 1570
Dry weight	kg	1220

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

OPTIONAL EQUIPMENTS

- * Electronic governor control system (except AC 90)
- * Remote Radiator
- * Engine oil heater
- * Residential silencer
- * Charge voltmeter
- * Anti condensation heater for alternator
- * 3 pole alternator circuit breaker (only for automatic models)
- * Tool kit
- * Automatic Transfer Switch by contactor or motorized circuit breaker
- * Fuel - water separator filter
- * Automatic fuel filling system
- * Manual sump oil drain pump
- * Low fuel level alarm
- * Charge ammeter
- * Main fuel tank
- * 4 Pole contactor
- * Over sized alternator