

AC 825

aksa POWER GENERATION



230/400 V - 50 Hz	Generating Set Model	AC 825
Power Pf. 0,8	Standby kVA	825
	Prime kVA	750

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.
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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

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- 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 825
	Power Pf. 0,8		825 660
			750 600

D I E S E L E N G I N E	Engine Make		Cummins			
	Model		VTA 28 G6			
	Gross engine power output at rated rpm		kWm hp	722 968		
	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 82	3/4 120	Full 162
	Fuel Tank Capacity		Lt	900		
	Oil Capacity		Lt	83		
	Water Capacity		Lt	176		
	Air Intake - Engine		m ³ /min	55		
	Exhaust Gas Flow		m ³ /min	132		
Alternator Voltage Regulation		± %1				

OPEN TYPES		
Dimensions (length x width x height)	mm	4000 x 1410 x 2160
Dry weight	kg	5890

SOUND ATTENUATED TYPE		
Canopy Model		AK85
Dimensions (length x width x height)	mm	5800 x 1620 x 2530
Dry weight	kg	7480

* 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
- * Automatic fuel filling system
- * Manual sump oil drain pump
- * Enclosure, Sound proof canopy

- * Trailer
- * Charge ammeter
- * Main fuel tank
- * 4 pole contactor
- * Over sized alternator
- * Automatic Synchronising and power control system
- * Low fuel level alarm
- * 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