



230/400 V - 50 Hz	Generating Set Model	ACQ 881
Power Pf. 0,8	Standby kVA	881
	Prime kVA	800

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.Contact us for the other running periods. In accordance with ISO 8528, ISO 3046, BS 5514. Power ratings based on a 40 C (104 F) 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: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
- Lifting eyes allow easy transportation by a crane

CANOPY:

- 30' Container (except ACQ 881)
- Sandwich mineral wool attenuation
- Large lockable doors
- Acoustic baffles for the air inlet and outlet
- Steel internal floor
- Residential silencer
- White paint finishing (RAL 9010)
- 2000 litres fuel tank with retention bund

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 φ
- Engine Temperature (Cantigrade & Fahrenheit)
- Engine Speed RPM
- Engine hours run
- Plant battery 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		ACQ 881
	Power Pf. 0,8		881 704
			800 640
D I E S E L E N G I N E	Engine Make		Cummins
	Model		QSK 23 G3
	Gross engine power output at rated rpm	kWm hp	768 1030
	Aspiration and Cooling		Turbo charged and After Cooled
	Cylinders Capacity	Lt	23.15
	Cylinders and Build		6 In line
	Engine Speed	rpm	1500
	Bore and Stroke	mmxmm	170x170

Compression Ratio		16.0:1			
Governor		Electronic			
Fuel Consumption		Load L/hr	1/2	3/4	Full
			85	121	161
Fuel Tank Capacity		Lt	1250		
Oil Capacity		Lt	154		
Water Capacity		Lt	175		
Air Intake - Engine		m ³ /min	51		
Exhaust Gas Flow		m ³ /min	132		
Alternator Voltage Regulation		± %1			

OPEN TYPES		
Dimensions (length x width x height)	mm	4200 x 1700 x 2230
Dry weight	kg	5860

SOUND ATTENUATED TYPE		
Canopy Model		AK 90
Dimensions (length x width x height)	mm	6500 x 2200 x 2360
Dry weight	kg	9100

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

OPTIONAL EQUIPMENTS

- * Fuel - Water separator filter
- * Residential silencer
- * Trailer
- * Charge voltmeter
- * Anti condensation heater for alternator
- * 3 pole alternator case circuit breaker (only for automatic models)
- * Over sized alternator
- * Automatic Synchronising and power control system
- * Automatic fuel filling system
- * Enclosure, Sound proof canopy
- * Low fuel level alarm
- * Charge ammeter
- * Main fuel tank
- * Tool kit
- * Automatic transfer switch by contactor or motorized circuit breaker