

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: Container or soundproof container and mobile units



231/400 V-50 Hz	Generating Set Model		ACQ 880	ACQ 1030	ACQ 1130
Power Pf. 0,8	Standby	kVA	880	1030	1130
	Prime	kVA	800	930	1030

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, ISO 3046, BS 5514. Contact us for the other running periods. Power ratings based on a 40°C (104 °F) ambient temperature reference.

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
- 4 Valves per cylinder
- 24 Vdc starter and charge alternator
- Replaceable fuel filters, oil filters and dry element air filters
- 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 diagrams documents

ALTERNATOR

- Brushless, single bearing system, 4 poles
- Insulation class H
- Standart degree of protection IP21
- Self-exciting and self-regulating
- Solid state Automatic Voltage Regulator
- Impregnation with tropicalised epoxy varnish
- Stator windings with 2/3 pitch for improved harmonics

CHASSIS

- The complete generating set is mounted as whole on a heavy-duty profile type, steel base frame. Antivibration pads are fixed between the engine/alternator feet and the base frame
- The generating set can be lifted or carefully pushed / pulled by the base frame
- Lifting eyes allow easy transportation by a crain

SILENT TYPE CONTAINER

- 30' Container
- 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, IEC 34. The generating set is manufactured by a full accredited NQA ISO 9001.



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

Common Metering via LCD display

- Generator Volts (F-F / F-N)
- Generator Amperes (L1, L2, L3)
- Generator Frequency (Hz)
- Generator kVA
- Generator kW
- Generator Cos
- Engine oil pressure (PSI & Bar)
- Engine Temperature (°C & °F)
- Engine speed RPM
- Engine hours run
- Plant battery volts

Common Alarms

- Under / over generator volts
- Under / over generator frequency
- Over current
- Low oil pressure
- High engine temperature
- Under / over speed
- Low coolant level
- Fail to start
- Fail to stop
- Emergency Stop
- Charge fail
- Low / high battery volts

I - Auto Mains Failure Control System P 2020

- Control with DSE model 5220 module
- 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

2 - Auto Start Control System P 2010

- Control with DSE model 5010 module
- Emergency stop push button

Additional Features

- Provides signal to load transfer
- Easy push button control
- Stop / Reset - Auto - Manual - Test - Start



DSE 5220



DSE 5210

TECHNICAL DATA

DIESEL GENERATING SETS 231/400 V - 50 Hz

GROUP	MODEL			ACQ 880			ACQ 1030			ACQ 1130		
	DIESEL ENGINE	Power Pf. 0,8	Standby	kVA	880			1030			1130	
kW				704			824			904		
Prime		kVA	800			930			1030			
		kW	640			744			824			
Engine make			Cummins			Cummins			Cummins			
Model			QST 30 G2			QST 30 G3			QST 30 G4			
Gross Engine Power Output (at rated rpm)			kWm	768			895			970		
			hp	1030			1200			1300		
Aspiration and Air Cooling			Turbo charged and After cooled			Turbo charged and After cooled			Turbo charged and After cooled			
Cubic Capacity			Litres	30,48			30,48			30,48		
Cylinders and Build			12-50° Vee			12-50° Vee			12-50° Vee			
Engine Rated Speed			rpm	1500			1500			1500		
Bore and Stroke			mmxmm	140x165			140x165			140x165		
Compression Ratio			14,0:1			14,0:1			14,0:1			
Governor			Electronic			Electronic			Electronic			
Fuel Injection System			Direct			Direct			Direct			
Fuel Consumption			Load	1/2	3/4	Full	1/2	3/4	Full	1/2	3/4	Full
			L/h	86	128	167	94	139	184	102	151	202
Fuel Tank Capacity			Litres	1250			1250			1250		
Total Oil Capacity			Litres	154			154			154		
Coolant Capacity (radiator and Engine)			Litres	175			175			342		
Radiator Cooling Air			m ³ /min	1056			1086			1488		
Air Intake - Engine			m ³ /min	51			52			57		
Exhaust Gas Flow			m ³ /min	132			146			165		
Exhaust Gas Temperature			°C	535			541			565		
Heat Radiated to Ambient			kW	85			90			105		
Engine derating - altitude			4% per 300m above 1524m			4% per 300m above 1000m			5% per 300m above 1000m			
Engine derating - temperature			2% per 11°C above 40°C			2% per 11°C above 40°C			4% per 11°C above 40°C			
Alternator Voltage Regulation			± 1 %			± 1 %			± 1 %			

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Open Type

















Dimensions (length x width x height)	mm	4155x1445x2060	4240x1770x2330	4330x2000x2250
Dry weight	kg	7100	7250	7900

Sound Attenuated Type

Container Model	SC30			
Dimensions (length x width x height)	mm	9125x2438x2591		
Dry Weight	kg	14050	14200	14600
Sound Level (at full load)	7m / dB(A)	72	72	73

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

OPTIONAL EQUIPMENTS

-  Fuel-water separator filter
-  Automatic fuel filling system
-  Engine oil heater
-  Remote radiator
-  Residential silencer
-  Enclosure or sound proof container
-  Low fuel level alarm
-  Charge ammeter
-  Anti condensation heater for alternator
-  3 pole alternator circuit breaker (only for automatic models)
-  Automatic Synchronising and power control system
-  Tool Kit
-  Main fuel tank
-  Over sized alternator
-  Automatic transfer switch by motorized circuit breaker
-  Trailer



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