



230/400 V - 50 Hz	Generating Set Model	ACQ 1130
Power Pf. 0,8	Standby kVA	1130
	Prime kVA	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. 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  $\phi$
- 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

<b>TECHNICAL DATA</b>			
<b>Diesel Generating Sets 230/400 V - 50 Hz</b>			
<b>G R O U P</b>	<b>MODEL</b>		ACQ 1130
	Power Pf. 0,8		1130 904
			1030 824
<b>D I E S E L  E N G I N E</b>	Engine Make		Cummins
	Model		QST 30 G4
	Gross engine power output at rated rpm		kWm hp 970 1300
	Aspiration and Cooling		Turbo After Cooled
	Cylinders Capacity		Lt 30.48
	Cylinders and Build		12 - 50°Vee
	Engine Speed		rpm 1500
	Bore and Stroke		mmxmm 140x165
	Compression Ratio		14.0:1
Governor		Electronic	

Fuel Consumption	Load L/hr	1/2 102	3/4 151	Full 202
Fuel Tank Capacity	Lt	1250		
Oil Capacity	Lt	154		
Water Capacity	Lt	342		
Air Intake - Engine	m <sup>3</sup> /min	57		
Exhaust Gas Flow	m <sup>3</sup> /min	165		
Alternator Voltage Regulation	± %1			

### OPEN TYPES

Dimensions (length x width x height)	mm	4330 x 2000 x 2250
Dry weight	kg	7900

### SOUND ATTENUATED TYPE

Canopy Model		SC 30
Dimensions (length x width x height)	mm	9125 x 2438 x 2591
Dry weight	kg	14600

\* 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
- \* Enclosure, Sound proof canopy
- \* Low fuel level alarm
- \* 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
- \* Residential silencer
- \* Trailer
- \* Charge ammeter
- \* Main fuel tank
- \* Tool kit
- \* Automatic transfer switch by contactor or motorized circuit breaker