



WE MAKE YOUR POWER SOLUTIONS SUSTAINABLE

Generating Set

TECHNICAL DATA SHEET

AQC220



Silent / Closed Type

Image for illustration purposes only.

Prime Power*	Standby Power**	Voltage/Ph	Hz/rpm***	PF
200kVA/160 kWe	220 kVA/176 kWe	400/3Ph	50/1500	0.8

Prime power*

Unlimited hours usage with an average load factor of 80% of the published Prime power over each 24 hours period. A 10% overload is available for 1 hour in every 12 hours operation.

Standby power**

Limited to 500 hours annual usage with an average load factor of 80% of the published Standby power rating over each 24 hour period. Up to 300 hours of annual usage may be run continuously. No overload is permitted on Standby power.

Available in 60HZ for all voltage ratings.***

Standard Reference Conditions

Note: Standard reference conditions 40°C (104°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity.

Diesel Generator Set	
Engine Make /Model	Cummins QSB7-G5
Alternator Make /Model	Stamford UCI274H
Control Panel	DSE 6120
Base Frame / Silent Canopy	Robust Structure/ Corrosion Resistant
Circuit Breaker Type	3 Pole MCCB (4P Available as optional)
Built in Base Fuel Tank Capacity	550
Battery	Maintenance free Lead Acid

Dimensions	Length (mm)	Width (mm)	Height (mm)	Weight (KG)
Close Type	3893	1355	2209	2150
Open Type	2500	1100	1751	2000

ENGINE SPECIFICATIONS	
Engine Make Model	Cummins QSB7-G5
No. of Cylinders	6 vertical in-line
Cycle	4 Stroke
Aspiration	Turbocharged and Air to Air aftercooled
Cooling Method	Water cooled
Governing Type	Electronic
Governing Class	G2 - ISO 8528 Part 1
Compression Ratio	17.2:1
Displacement	6.69L / 408 in ³
Bore/Stroke (mm / in)	(107/124)/(4.21/4.88)
Dynamic Charging Alternator	100AMP, 12V

LUBRICATION SYSTEM	
Oil Filter Type	Spin on full flow filter
Total Oil Capacity	18.9L
Oil Pan	17.4L
Oil Type	APICH4/CI4; SAE15W40

AIR SYSTEM	
Air Filter Type	Dry Element
Combustion Air Flow (PRP)	12.30 m ³ /min
Combustion Air Flow (ESP)	12.72 m ³ /min
Radiator Air Flow	318 m ³ /min

COOLING SYSTEM	
Total Coolant Capacity (L)	10.2L
Water Pump Type	Centrifugal Eng-Driven
Radiator Fan Load	6.9kW
Heat Radiation to Room (ESP)	19kW
Heat Radiation to Room (PRP)	21kW

EXHAUST SYSTEM	
Muffler Type	Industrial Grade
Max. Back Pressure	10.2kPA
Exhaust Gas flow (PRP/ESP)	34.14 / 35.82m ³ /min
Exhaust Gas Temperature (PRP/ESP)	544/561°C

Comply with Standards	
ISO 3046, BS 5514, DIN 6271, NEMA-MGI, DIN EN, BS 5000, IEC 60034, IEC 60947-2	

Powered By:



STAMFORD



1. Features & Benefits:

- AQ Gen set is powered by Cummins Engine the world leader having over 85 years of innovation and excellence, with customers support in 182 countries from 3500 outlets.
- AQ Gen set is powered by Stamford alternator, the Global number 1 in Alternators, with over 99 years of Experience.
- AQ Gen set is equipped with DSE controller, one of the world's top manufacturers in UK, having over 40 years of excellence, the most advanced and user friendly controller.
- Low fuel consumption, saving on fuel spend
- Compact and rugged design, saving on transport and storage cost
- Designed to occupy less space considering critical applications and cities where space is at a premium.
- Low noise and vibration, considering critical applications where noise level matters
- Easy maintenance and long service intervals, saving on maintenance cost
- Subject to rigorous tests including load acceptance, cooling, vibration and noise level prior shipment to customer.
- Simple to operate and environment friendly in worst ambient conditions
- Equipped with built-in fuel tank sufficient for 8 to 10 hours of operations.
- Fully Engineering wide range of optional accessories available.

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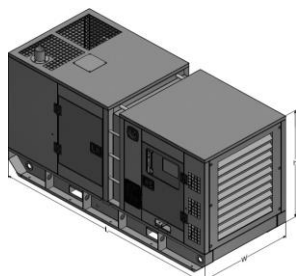
Cummins QSB7



Stamford UCI274H



DSE6120 MKII
AUTO START & AUTO MAINS
FAILURE CONTROL



AQ ENCLOSURE/CANOPY

Engine Fuel System	
Recommended Fuel	Class A2 Diesel
Fuel Consumption Standby	51 L/hr
Fuel Consumption 100% PRP	45 L/hr
Fuel Consumption 75% PRP	36 L/hr
Fuel Consumption 50% PRP	26 L/hr

ALTERNATOR SPECIFICATIONS	
Alternator Make /Model	Stamford UCI274H
AVR Model	SX440
Number of Poles	4
Number of Winding Leads	6
Type of Bearing	Single Bearing
Insulation Class - Temp Rise	H / H
Efficiency	93%
Ingress Protection Rating	IP 23
Excitation System	Self Excited
Voltage Regulation	+/- 1%
Harmonic Coefficient THF	< 2%
Overspeed	2500 r.p.m
Cooling air flow	0.514m³/sec

Controller Make & Model	DeepSea 6120
Operation Mode	AMF
Display	Graphic Back-lit LCD (128x64) pixels
Ingress Protection Rating	IP65
Binary Inputs/Outputs	6 / 4
Analog Inputs	3
Measurement	Vac, A, Hz, kVA, kW, Vdc
Event Log	Alarms log, Hrs log
Communication	USB

Please refer to Controller Data Sheet for more details.

ENCLOSURE SPECIFICATIONS	
Enclosure Type	Acoustic & Weather Proof
Anticorrosive Protection	Polyester Powder Coated Galvanized Sheet
Ingress Protection	IP 23
Lifting	ISO Standard Lifting
Emergency	External Emergency Push Button
Canopy RAL Color	RAL 2000
Base frame RAL Color	RAL 9011
Noise Pressure level @	75.2db(A) @ 7 mt



Open Type

Image for illustration purposes only.

2. WARRANTY POLICY:

- AL Qabandi Generator technology products has a warranty for all prime equipment, limited to 2000 running hours or 12 months warranty & For Standby equipment, Limited to 500 running hours or 12 months warranty whichever occur first against manufacturing defect.
- Wearing parts (filters), incorrect man-made operation, Back up Genset maintenance failures are excluded from the warranty policy

3. DOCUMENTAION

Operation and Maintenance Manual, GAD, Wiring Diagram & FAT Report are Accompanied with Genset.

4. OPTIONAL FEATURES

A. Engine

- Heavy-Duty Air Filter
- Coolant Heater
- Lubricant Oil Heater
- Fuel and Water Separator
- Lube Oil Rotary Pump

B. Alternator

- Anti Condensation Heater
- PMG + AVR
- Double Bearing Alternator
- RTDs For Bearing and Winding

C. Cooling System:

- 55 degree Radiator
- Remote Radiator

D. Control System:

- AMF / Parallel
- Remote Annunciators
- 4 p manual/Motorized Circuit breaker

E. Automatic Transfer Switch (ATS):

- Contractor or Breaker type ATS
- Motorized changeover type ATS

F. Start Battery:

- Nickel-cadmium battery
- Maintenance-free battery
- Battery charger and selector switch
- Charging current meter

G. Exhaust Muffler:

- Residential grade
- Critical grade
- Hospital grade

H. Available for voltages :

400/230V, 480/277V, 380/220V, 440/254V, 416/240V, 220/127V, 208/120V

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