



Generating Set

TECHNICAL DATA SHEET

AQC1400



Silent / Closed Type

Image for illustration purposes only.

| Prime Power* | Standby Power** | Voltage/Ph | Hz/rpm*** | PF |
|------------------|------------------|------------|-----------|-----|
| 1275kVA/1020 kWe | 1400kVA/1120 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 KTA50-G3 |
| Alternator Make /Model | Stamford PI734B/S6LD-H4 |
| Control Panel | DSE6120 |
| Base Frame / Silent Canopy | Robust Structure/ Corrosion Resistant |
| Circuit Breaker Type | 3 Pole MCCB (4P Available as optional) |
| Built in Base Fuel Tank Capacity | N/A |
| Battery | Maintenance free Lead Acid |

| Dimensions | Length (mm) | Width (mm) | Height (mm) | Weight (KG) |
|------------|-------------------|------------|-------------|-------------|
| Close Type | 30 Feet Container | | | 14680 |
| Open Type | 5000 | 2000 | 2496 | 10180 |

ENGINE SPECIFICATIONS

| | |
|--------------------------------|-------------------------------|
| Engine Make Model | Cummins KTA50-G3 |
| No. of Cylinders | 12 60° Vee form |
| Cycle | 4 Stroke |
| Aspiration | Turbocharged and After cooled |
| Cooling Method | Water cooled |
| Governing Type | Electronic |
| Governing Class | G2 - ISO 8528 Part 1 |
| Compression Ratio | 13.9 : 1.0 |
| Displacement | 50.3L litres |
| Bore/Stroke (mm / in) | (159/159)/(6.25/6.25) |
| Battery and Charger Alternator | 35AMP, 24V |

COOLING SYSTEM

| | |
|------------------------------|------------------------|
| Total Coolant Capacity (L) | 161 L |
| Water Pump Type | Centrifugal eng-driven |
| Radiator Fan Load | 21 Kw |
| Heat Radiation to Room (PRP) | 130kW |
| Heat Radiation to Room (ESP) | 150kW |

Comply with Standards

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

Powered By:



STAMFORD



Why AQ Power ?

When you are running a business every competitive advantage counts, choosing a right Generator Set can make all the difference to bottom line.

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, Having 120+ active patents, in over 40 countries and over 80 service centers.
- 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

rigorous tests including load test, cooling, vibration and noise test before shipment to customer. operate and environment friendly under ambient conditions with built-in fuel tank sufficient for 24 hours of operations.

- Fully Engineering wide range of optional accessories available.



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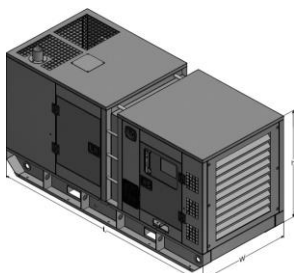
Cummins
KTA50-G3



Stamford
PI734B



DSE6120 MKII
AUTO START & AUTO MAINS



AQGT ENCLOSURE/CANOPY

| Engine Fuel System | |
|---------------------------|-----------------|
| Recommended Fuel | Class A2 Diesel |
| Fuel Consumption Standby | 293 L/hr |
| Fuel Consumption 100% PRP | 261 L/hr |
| Fuel Consumption 75% PRP | 199 L/hr |
| Fuel Consumption 50% PRP | 139 L/hr |

| ALTERNATOR SPECIFICATIONS | |
|------------------------------|-----------------------------|
| Alternator Make /Model | Stamford PI734B/S6L1D-H4 |
| AVR Model | MX341 / MX231 |
| Number of Poles | 4 |
| Number of Winding Leads | 6 |
| Type of Bearing | Single Bearing |
| Insulation Class - Temp Rise | H / H |
| Efficiency | 94.8% |
| Ingress Protection Rating | IP 23 |
| Excitation System | Separately Excited by P.M.G |
| Voltage Regulation | +/- 1% |
| Overspeed | 2250R.P.M |
| Cooling air flow | 2.69 m³/ Sec |

| Controller Make & Model | DeepSea 7320 |
|---------------------------|--------------------------------------|
| Operation Mode | AMF |
| Display | Graphic Back-lit LCD (132x64) pixels |
| Ingress Protection Rating | IP65 |
| Binary Inputs/Outputs | 9/8 |
| Analog Inputs | 4 |
| 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 |
| Canopy RAL Color | RAL 2000 |
| Base frame RAL Color | RAL 9011 |
| Noise Pressure level @ 7m | 88dBA |

Distributed & Serviced by:



Open Type

Image for illustration purposes only.

2. WARRANTY POLICY:

- AQ 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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Due to continuous research & product development, we reserve the right to change specification with out notice