

**AKSA Power Generation** has been producing industrial generator sets with an innovative compact design and excellence in quality for over **30 years**. AKSA has been providing reliable power through three main production plants and over 15 branch offices worldwide.



**General Characteristics**

|                     |                        |                        |                              |
|---------------------|------------------------|------------------------|------------------------------|
| Model Name          | <b>AC1930-6</b>        | Frequency / PF         | <b>60Hz, 1800 rpm, 0.8pf</b> |
| Engine Make & Model | <b>Cummins KTA50G9</b> | Alternator Make        | <b>Stamford</b>              |
| Control Panel Model | <b>DSE 7320</b>        | Base Frame / Enclosure | <b>AK98</b>                  |

**Genset Rating – 60Hz, 1800rpm, 0.8pf**

| Engine  | Alternator       | Voltage    | Standby Power | Prime Power | Standby Current |
|---------|------------------|------------|---------------|-------------|-----------------|
| KTA50G9 | PI734C (Wnd-312) | 480 / 277V | 1930kVA       | 1610kVA     | 2321A           |
|         | PI734C (Wnd-13)  | 380 / 222V | 1895kVA       | 1610kVA     | 2879A           |
|         | N.A.             | 220 / 127V | -             | -           | -               |
|         | N.A.             | 208 / 120V | -             | -           | -               |

Stand-by Power (Maximum): Power available at variable load in the event of main power network failure. No over load is permitted.  
 Prime Power: Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours of operation.  
 The above ratings represent the engine performance capabilities to conditions specified in accordance with ISO 8528/5 & ISO3046.  
**Derating may be required for conditions outside of the test conditions.**

**Codes & Standards**

The Generator set is designed and manufactured in a facility certified to **ISO9001** standards.

The Generator set is designed and manufactured in a facility certified to **ISO14001:2015** standards.

**AKSA Power Generation** provides **single source responsibility** for the generator set & accessories.

The generator set, with its components, are **prototype tested** and **production tested**



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**Engine Data**

|                               |  |
|-------------------------------|--|
| Manufacturer                  | Cummins                                    |
| Model                         | KTA50G9                                    |
| Displacement                  | 50.3 L / 16 Cylinders                      |
| Engine Speed                  | 1800rpm                                    |
| Engine Standby Power          | 1656 Kw                                    |
| Engine Prime Power            | 1384 kW                                    |
| Aspiration                    | Turbocharged & Low Temperature Aftercooled |
| Compression Ratio             | 13.9 : 1                                   |
| Bore / Stroke                 | 159 mm / 159 mm                            |
| Break Mean Effective Pressure | N.A.                                       |
| Piston Speed                  | N.A.                                       |
| Friction Power                | N.A.                                       |
| Radiated Heat to Ambient      | N.A.                                       |
| Steady State Stability        | 0.25 %                                     |
| Dry Weight – fan to flywheel  | 5360 kg                                    |
| Exhaust Noise 1m @Rated Power | -  |

**Fuel System**

|  |           |
|--|-----------|
| Type Injection System                                    | ummins PT |
| Max Fuel Flow  | 625 L/h   |
| Max Allowable Head on Injector Return Line               | 165 mmHg  |
| Max Restriction at PT Fuel Injection Pump – Dirty Filter | 203 mmHg  |

**Fuel Consumption**

|                      |                  |
|----------------------|------------------|
| Standby Power (110%) | 393 liter / hour |
| Prime Power (100%)   | 330 liter / hour |
| Prime Power (75%)    | 257 liter / hour |
| Prime Power (50%)    | 181 liter / hour |
| Prime Power (25%)    | 113 liter / hour |

**Electric System**

|                              |                 |
|------------------------------|-----------------|
| Engine Cranking Motor        | 24V             |
| Engine Battery Charge System | Negative Ground |
| Battery Qty, Rating, CCA     | 4 x 150Ah       |

**Cooling System**

|  |            |
|--|------------|
| Coolant Capacity (Engine Only)               | 165 L      |
| Minimum Pressure Cap                         | 96 kPa     |
| Max Coolant Friction Head External to Engine | 103 kPa    |
| Max Top Tank Temperature                     | 104 °C     |
| Thermostat Range                             | 82 – 93 °C |

**Exhaust System**

|                             |         |
|-----------------------------|---------|
| Exhaust Gas Temp            | 475 °C  |
| Max Allowable Back Pressure | 51 mmHg |
| Exhaust Gas Flow            | NA      |

**Air Intake System**

|                            |                   |
|----------------------------|-------------------|
| Intake Air Flow            | 3900 cfm          |
| Max Intake Air Restriction | NA                |
| Air Filter Type            | Dry Paper Element |

**Lubrication System**

|                             |        |
|-----------------------------|--------|
| Total System Capacity       | 204 L  |
| Sump Capacity Max / Min     | NA     |
| Max Oil Temp                | 121 °C |
| Oil Pressure at Rated Speed | NA     |

## Alternator Data

|                        |                         |
|------------------------|-------------------------|
| Manufacturer           | Stamford                |
| Standards              | BS EN 60034             |
| Control System         | PMG                     |
| A.V.R.                 | MX321                   |
| Voltage Regulation     | ± 0.5 %                 |
| Insulation System      | Class H                 |
| Protection             | IP23                    |
| Rated Power Factor     | 0.8                     |
| Stator Winding         | Double Layer Concentric |
| Winding Pitch          | Two Thirds              |
| Winding Leads          | 12                      |
| Telephone Interference | THF < 2 %               |
| Waveform Distortion    | No Load < 1.5 %         |
| Maximum Over speed     | 2250 rev/min            |

## Battery Charger & Electrical System Data

|                          |                 |
|--------------------------|-----------------|
| Manufacturer             | AKSA            |
| Model                    | SmartGen BAC06A |
| Input Voltage            | 100V ~ 250V AC  |
| Output Voltage / Current | 27,6V DC / 3A   |

## Jacket Water Heater Data

|               |                         |
|---------------|-------------------------|
| Manufacturer  | AKSA                    |
| Model         | HTR4000                 |
| Input Voltage | Based on Genset Voltage |
| Power         | 2 x 4000W               |

## Controller Data

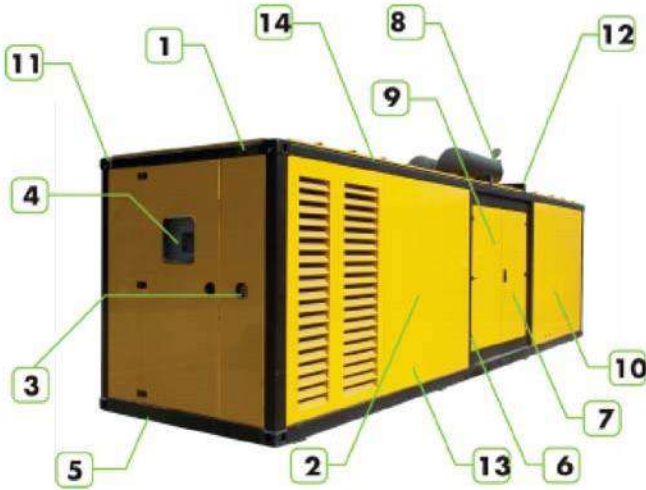
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|--------------|----------------------------|
| Manufacturer | DSE                        |
| Model        | 7320                       |
| Type         | Auto Mains Failure Control |

## Controller Features & Benefits

- Microprocessor controlled
- License free PC Software
- IP65 rating offers increased resistance to water ingress
- Modules can be integrated to building management systems
- Real time clock provides accurate event log
- Four line back-lit LCD text display
- Five key menu navigation
- Front panel editing with PIN protection
- Support up to three remote display modules
- Configurable timers and alarms
- Multiple date and timer scheduler
- Integral PLC editor
- 'Protections disabled' feature
- kW & kVAR protection
- Reverse power (kW & kVAR) protection
- Power monitoring (kWh, kVAR, kVAh, kVArh)
- Load switching (load shedding and dummy load outputs)
- Unbalanced load protection
- Independent Earth Fault trip
- Fully configurable via DSE Configuration Suite PC Software
- SCADA monitoring via DSE Configuration Suite PC Software

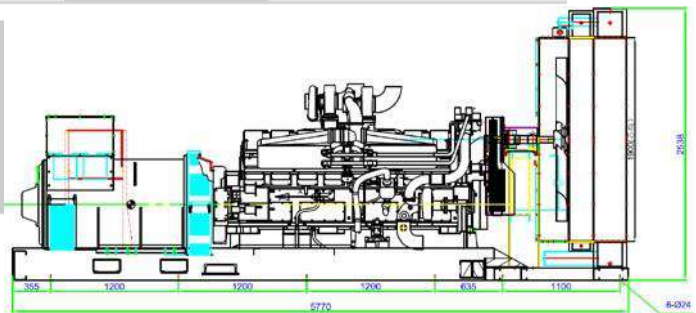
**Enclosure Features**

- ✓ Heavy Duty Steel Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Control Panel Window
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges
- ✓ External Mounted Exhaust System with Rain Cap
- ✓ Coolant Fill Cap
- ✓ Top Lifting Feature
- ✓ Base Fuel Tank
- ✓ Easy Access for Maintenance
- ✓ Sound Absorb High Density Foam



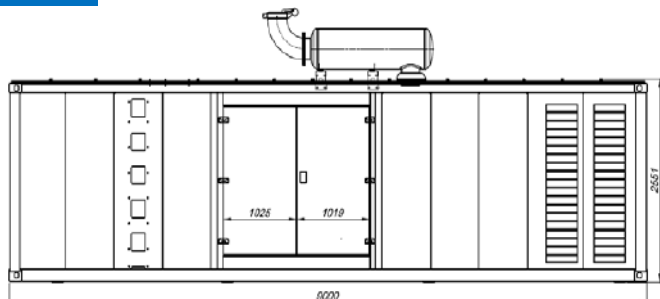
**Open Skid Gen-Set Dimensions**

|               |          |
|---------------|----------|
| Length        | 5770 mm  |
| Width         | 2100 mm  |
| Height        | 2538 mm  |
| Dry Weight    | 10670 kg |
| Tank Capacity | -        |



**Enclosed Gen-Set Dimensions**

|                           |          |
|---------------------------|----------|
| Length                    | 9000 mm  |
| Width                     | 2270 mm  |
| Height                    | 2550 mm  |
| Dry Weight                | 16700 kg |
| Tank Capacity             | 2000 L   |
| Sound Pressure @ 7 meters | 82 dBA   |



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**Standard Features & Accessories**

- ✓ Heavy Duty Steel Base Frame
- ✓ Integral Fuel Tank
- ✓ PMG w/MX321 AVR
- ✓ Engine Jacket Water Heater
- ✓ Battery and Battery Rack
- ✓ Battery Charger
- ✓ Battery Restraint
- ✓ Anti Vibration Pads between Engine/Alternator & Base Frame
- ✓ Residential Grade Silencer Inside Enclosure
- ✓ Industrial Grade Silencer Set for Open Skid Sets
- ✓ Sound Absorb Foam for Enclosure
- ✓ Air Inlet & Outlet Rodent Guards
- ✓ Oil Drain Valve
- ✓ Coolant Drain Valve
- ✓ Flex Fuel Lines
- ✓ Air Filter Restriction Gauge
- ✓ Engine Manifold Cover
- ✓ Turbocharger Cover
- ✓ Protection Covers for Rotating Parts
- ✓ Exhaust Insulation Cover
- ✓ Control Panel Window
- ✓ Operations Manual
- ✓ 24 Months / 2000 hours Limited Standby Warranty

**Optional Accessories**

- Main Line CB (3 / 4 Poles)
- Anti-condensation Heater
- Stand Alone Bulk Fuel Tank
- Fuel Level Display & Alarm on Controller
- Low / High Fuel Alarms
- Fuel Water Separator Filter
- Auto Fuel Fill Control System
- Oil Temperature Display on Controller
- Manual Speed Adjust Rheostat
- Manual Voltage Adjust Rheostat
- Remote Annunciator Panel
- Remote Control & Monitoring Panel
- Advanced SMS Messaging
- Control Panel Heater
- Battery Disconnect Switch
- Battery Heater
- 10A Battery Charger
- Battery Charge Ammeter
- Tool Kit for Maintenance
- Power Plug Outlet Kit
- Automatic Transfer Panel (ATS) – Contactor Design
- Automatic Transfer Panel (ATS) – Changeover Design

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**SEDE PRINCIPAL:**

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