

**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>AC2540-6</b>	Frequency / PF	<b>60Hz, 1800 rpm, 0.8pf</b>
Engine Make & Model	<b>Cummins QSK60G6</b>	Alternator Make	<b>Stamford</b>
Control Panel Model	<b>DSE 7320</b>	Base Frame / Enclosure	<b>AK99/ISO CONTAINER</b>

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

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
QSK60G6	PI734F (Wnd-312)	480 / 277V	2540kVA	2295kVA	3055A
	PI734F (Wnd-13)	380 / 222V	2540kVA	2295kVA	3859A
	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	QSK60G6
Displacement	60.2 L / 16 Cylinders
Engine Speed	1800rpm
Engine Standby Power	2180 Kw
Engine Prime Power	1975 kW
Aspiration	Turbocharged & Low Temperature Aftercooled
Compression Ratio	14.5 : 1
Bore / Stroke	159 mm / 190 mm
Break Mean Effective Pressure	2420 kPa
Piston Speed	11.4 m/s
Friction Power	207 kWm
Radiated Heat to Ambient	210 kWm
Steady State Stability	0.25 %
Dry Weight – fan to flywheel	7185 kg
Exhaust Noise 1m @Rated Power	110 dBA

**Fuel System**

Type Injection System	Cummins HPI-PT
Max Fuel Flow	1685 L/h
Max Allowable Head on Injector Return Line	229 mmHg
Max Restriction at PT Fuel Injection Pump – Dirty Filter	203 mmHg

**Fuel Consumption**

Standby Power (110%)	521 liter / hour
Prime Power (100%)	466 liter / hour
Prime Power (75%)	356 liter / hour
Prime Power (50%)	247 liter / hour
Prime Power (25%)	144 liter / hour

**Electric System**

Engine Cranking Motor	24V
Engine Battery Charge System	Negative Ground
Battery Qty, Rating, CCA	4 x 200Ah

**Cooling System**

Coolant Capacity (Engine Only)	159 L
Minimum Pressure Cap	76 kPa
Max Coolant Friction Head External to Engine	69 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	15500 CFM

**Air Intake System**

Intake Air Flow	6150 cfm
Max Intake Air Restriction	6.2 kPa – Dirty Element
Air Filter Type	Dry Paper Element

**Lubrication System**

Total System Capacity	N.A.
Sump Capacity Max / Min	231 L – 261 L
Max Oil Temp	121 °C
Oil Pressure at Rated Speed	345 – 483 kPa

**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**

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**

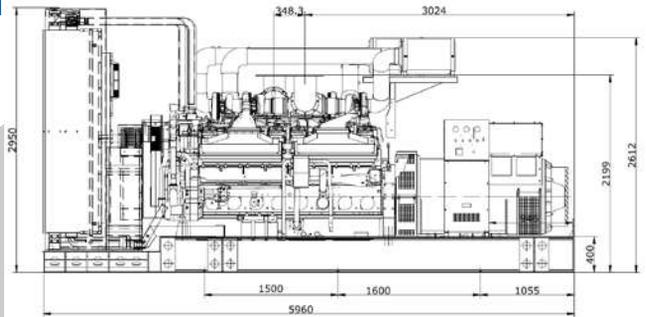
- ✓ Heavy Duty Steel Enclosure / ISO Container
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Standard Sound Attenuation Foam
- ✓ Stainless Steel Locks & Hinges

**Enclosure Features**

- ✓ Externally Mounted Exhaust System with Rain Cap
- ✓ Sound Absorb Material
- ✓ Container Lifting Hooks
- ✓ Oil & Coolant Drain Ports
- ✓ Easy Access for Maintenance

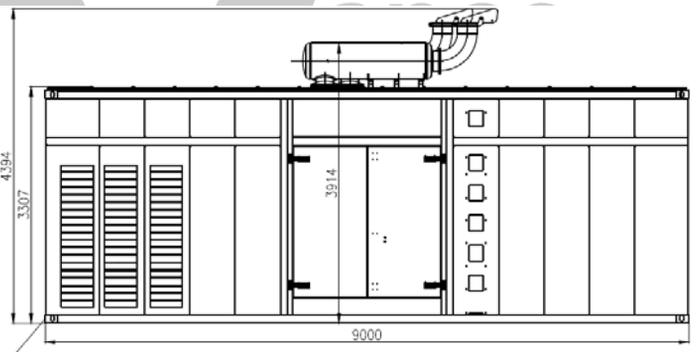
**Open Skid Gen-Set Dimensions**

Length	5960 mm
Width	2250 mm
Height	2950 mm
Dry Weight	14200 kg
Tank Capacity	-



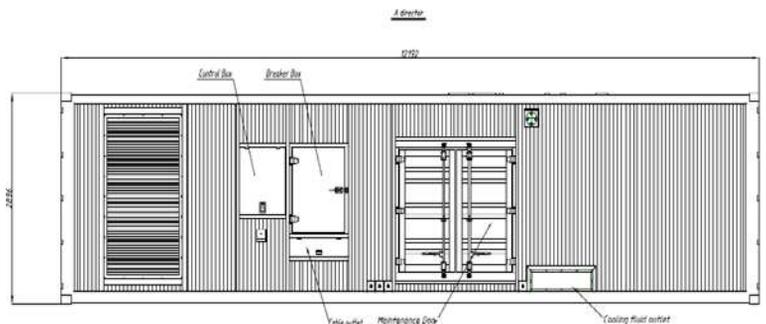
**Enclosed Gen-Set Dimensions – AK99 CANOPY**

Length	9000 mm
Width	2800 mm
Height	4394 mm
Dry Weight	TBD
Tank Capacity	2000 L
Sound Pressure @ 7 meters	TBA



**Enclosed Gen-Set Dimensions – ISO CONTAINER**

Length	12192 mm
Width	2438 mm
Height	2896 mm
Dry Weight	25400 kg
Tank Capacity	-
Sound Pressure @ 7 meters	TBA



**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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