

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	AC1000-6	Frequency / PF	60Hz, 1800 rpm, 0.8pf
Engine Make & Model	Cummins QSK23G3	Alternator Make	Stamford
Control Panel Model	DSE 7320	Base Frame / Enclosure	AK90

Genset Rating – 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
QSK23G3	HCI634G (Wnd-311)	480 / 277V	1000kVA	905kVA	1202A
	HCI634G (Wnd-13)	380 / 222V	1000kVA	905kVA	1519A
	HCI634G (Wnd-311)	220 / 127V	1000kVA	905kVA	2624A
	HCI634H (Wnd-311)	208 / 120V	1000kVA	905kVA	2775A

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	QSK23G3
Displacement	23.15 L
Engine Speed	1800rpm
Engine Standby Power	895 Kw
Engine Prime Power	809 kW
Aspiration	Turbocharged and Charge Air Cooled
Compression Ratio	16 : 1
Bore / Stroke	170 mm / 170 mm
Break Mean Effective Pressure	2600 kPa
Piston Speed	10.3 m/s
Friction Power	93 kWm
Radiated Heat to Ambient	85 kWm
Steady State Stability	0.25 %
Dry Weight – fan to flywheel	2755 kg
Exhaust Noise 1m @Rated Power	TBD

Electric System

Engine Cranking Motor	24V
Engine Battery Charge System	Negative Ground
Battery Qty, Rating, CCA	2 x 150Ah

Cooling System

Coolant Capacity (Engine Only)	46.5 L
Minimum Pressure Cap	69 kPa
Max Coolant Friction Head External to Engine	48 kPa
Max Top Tank Temperature	104 °C
Thermostat Range	76.5– 90 °C

Exhaust System

Exhaust Gas Temp	514 °C
Max Allowable Back Pressure	10.2 kPa
Exhaust Gas Flow	3056 cfm

Fuel System

Type Injection System	Cummins HPI-PT
Max Fuel Flow	684 L/h
Max Return Fuel Flow	662 L/h
Max Allowable Head on Injector Return Line	30 kPa

Air Intake System

Intake Air Flow	1132 cfm
Max Intake Air Restriction	6.2 kPa Dirty Element 3.7 kPa Clean Element
Air Filter Type	Dry Paper Element

Fuel Consumption

Standby Power (110%)	212 liter / hour
Prime Power (100%)	189 liter / hour
Prime Power (75%)	139 liter / hour
Prime Power (50%)	97 liter / hour
Prime Power (25%)	56 liter / hour

Lubrication System

Total System Capacity	103 L
Sump Capacity Max / Min	95 L / 66 L
Max Oil Temp	120 °C
Oil Pressure at Rated Speed	345 – 448 kPa

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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

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

Battery Charger & Electrical System Data

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

- Integral PLC editor
- 'Protections disabled' feature
- kW & kVAr protection
- Reverse power (kW & kVAr) protection
- Power monitoring (kWh, kVAr, kVAh, kVArh)

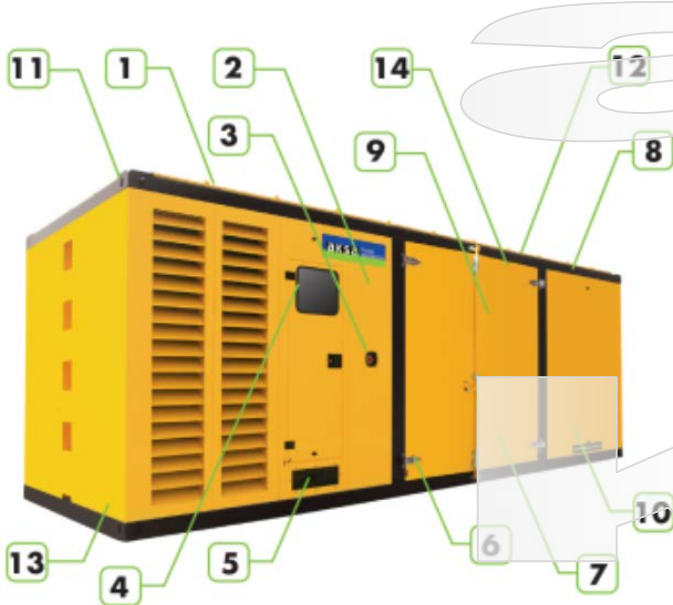
Jacket Water Heater Data

Manufacturer	AKSA
Model	HTR4000
Input Voltage	Based on Genset Voltage
Power	4000W

- 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

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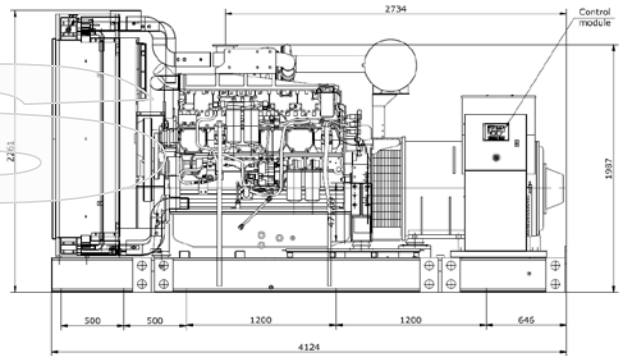
Enclosure Features



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

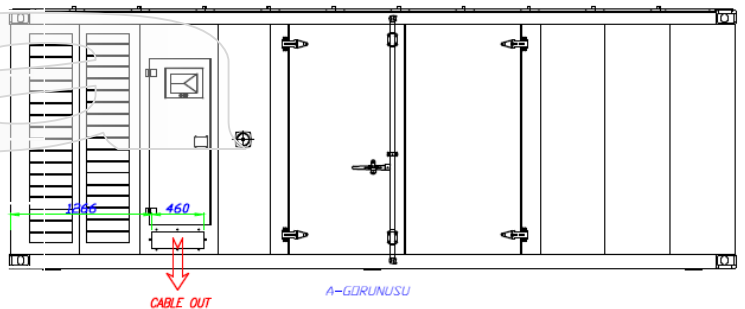
Open Skid Gen-Set Dimensions

Length	4124 mm
Width	2000 mm
Height	2261 mm
Dry Weight	6500 kg
Tank Capacity	1400 L



Enclosed Gen-Set Dimensions

Length	6500 mm
Width	2200 mm
Height	2353 mm
Dry Weight	9300 kg
Tank Capacity	1100 L
Sound Pressure @ 7 meters	77 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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