

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	AC1265-6	Frequency / PF	60Hz, 1800 rpm, 0.8pf
Engine Make & Model	Cummins QST30G4	Alternator Make	Stamford
Control Panel Model	DSE 7320	Base Frame / Enclosure	AK96

Genset Rating – 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
QST30G4	HCI634J (Wnd-311)	480 / 277V	1265kVA	1150kVA	1521A
	HCI634J (Wnd-13)	380 / 222V	1265kVA	1150kVA	1922A
	HCI634J (Wnd-311)	220 / 127V	1265kVA	1150kVA	3319A
	HCI634J (Wnd-311)	208 / 120V	1250kVA	1150kVA	3469A

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	QST30G4
Displacement	30.48 L / 12 Cylinders
Engine Speed	1800rpm
Engine Standby Power	1112 Kw
Engine Prime Power	1007 kW
Aspiration	Turbocharged and Low Temperature Aftercooled
Compression Ratio	14 : 1
Bore / Stroke	140 mm / 165 mm
Break Mean Effective Pressure	2427 kPa
Piston Speed	9.9 m/s
Friction Power	82 kWm
Radiated Heat to Ambient	130 kWm
Steady State Stability	0.25 %
Dry Weight – fan to flywheel	3012 kg
Exhaust Noise 1m @Rated Power	131 dBA

Fuel System

Type Injection System	Bosh P8500 LLA
Max Fuel Flow	570 L/h
Max Return Fuel Flow	550 L/h
Max Fuel Inlet Temperature	71 °C

Fuel Consumption

Standby Power (110%)	267 liter / hour
Prime Power (100%)	240 liter / hour
Prime Power (75%)	177 liter / hour
Prime Power (50%)	119 liter / hour
Prime Power (25%)	66 liter / hour

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)	79 L
Minimum Pressure Cap	69 kPa
Max Coolant Friction Head External to Engine	69 kPa
Max Top Tank Temperature	104 °C
Thermostat Range	82 – 95 °C

Exhaust System

Exhaust Gas Temp	525 °C
Max Allowable Back Pressure	51 mmHg
Exhaust Gas Flow	3670 cfm

Air Intake System

Intake Air Flow	2840 cfm
Max Intake Air Restriction	635mmH ₂ O Dirty Element 381mmH ₂ O Clean Element
Air Filter Type	Dry Paper Element

Lubrication System

Total System Capacity	154 L
Sump Capacity Max / Min	133 L / 114 L
Max Oil Temp	121 °C
Oil Pressure at Rated Speed	310 – 386 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

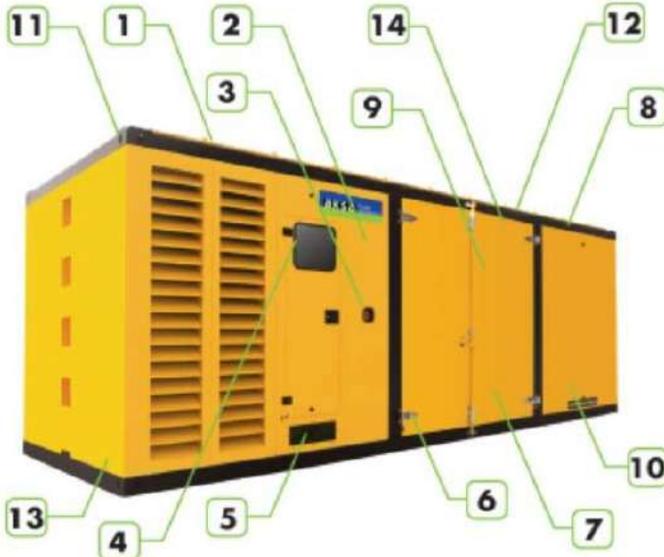
Manufacturer	DSE
Model	7320
Type	Auto Mains Failure Control

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 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

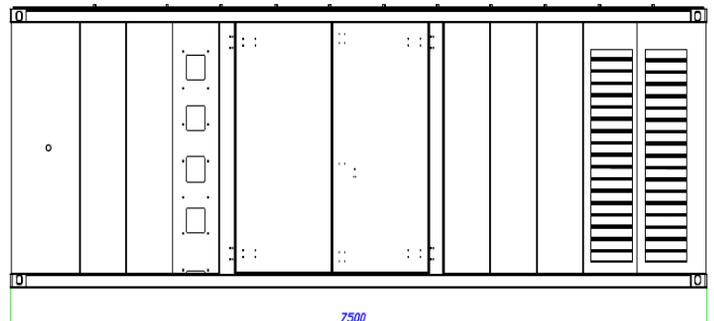
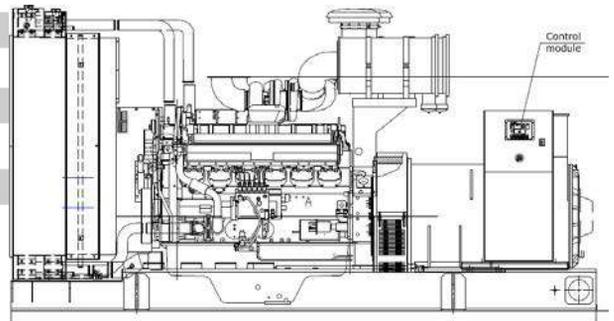


Open Skid Gen-Set Dimensions

Length	4250 mm
Width	1950 mm
Height	2217 mm
Dry Weight	7100 kg
Tank Capacity	950 L

Enclosed Gen-Set Dimensions

Length	7500 mm
Width	2300 mm
Height	2495 mm
Dry Weight	11000 kg
Tank Capacity	1500 L
Sound Pressure @ 7 meters	78 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:

Av. Nicolás Ayllón N° 2241 – Ate – Lima – Perú
 Telf.: (51-1) 748-3333 / 326-0411 / Anexo 1152

