



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	APD344C-6	Frequency / PF	60Hz, 1800 rpm, 0.8pf
Engine Make & Model	Cummins 6LTAA9.5G1	Alternator Make	Stamford / Aksa
Control Panel Model	DSE 7320	Base Frame / Enclosure	AKSA MS60

Genset Rating – 60Hz, 1800rpm, 0.8pf

Engine	Stamford Alternator	Aksa Alternator	Voltage	Standby Power	Prime Power	Standby Current
6LTAA9.5G1	HCI444D	AK5240	480 / 277V	344kVA	312.5kVA	414A
	HCI444D	AK5240	220 / 127V	344kVA	312.5kVA	902A
	HCI444D	AK5240	208 / 120V	344kVA	312.5kVA	954A

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	6LTAA9.5-G1
Displacement & Cylinders	9.5L / 6 Cylinders
Engine Speed	1800rpm
Engine Standby Power	310 kW / 416 HP
Engine Prime Power	280 kW / 375 HP
Aspiration	Turbocharged and Charge Air Cooled
Compression Ratio	16.6 : 1
Bore / Stroke	114 mm / 145 mm
Governor Regulation	≤ 3%
Torque	1645 N.m
Max Overspeed Capability	2900 rpm
Max No Load Speed	1890 ± 20 rpm
Low Idle Speed	800 ± 50 rpm
Exhaust Gas Flow	28 kg/min
Exhaust Gas Temperature	495 °C
Turbo Comp. Outlet Pressure	235 kPa

Fuel System

Type of Pump	Mechanical Fuel Pump
Governor	Electronic Governor
Max Fuel Inlet Temperature	298 °C

Fuel Consumption

Standby Power	76 L/h
Prime Power (100%)	68 L/h
Prime Power (75%)	50 L/h
Prime Power (50%)	34 L/h
Prime Power (25%)	19 L/h

Electric System

Engine Cranking Motor	24V
Cold Start Capability without Start Add Device	-12 °C
Battery Qty, Rating, CCA	2 x 80Ah

Cooling System

Coolant Capacity	34 L
Inlet Air Flow	339 L/s
Charge Air Flow	27 kg/min
Radiator Coolant Flow	5 L/min
Heat Rejection to CAC	95 kW

Exhaust System

Exhaust Gas Temperature	495 °C
Exhaust Restriction	10 kPa
Manifold Insulation	Not Acceptable
Turbocharger Insulation	Not Acceptable

Air Intake System

Max Intake Air Restriction	3.7 kPa (Clean Element)
Temperature	199 °C

Lubrication System

Recommended Oil	5W40
Oil Capacity : High - Low	-
Min Required Lube Capacity	TBA



Alternator Data

Manufacturer	Stamford / Aksa
Standards	BS EN 60034
Control System	Self Excited
A.V.R.	SX460
Voltage Regulation	± 1 %
Insulation System	Class H
Protection	IP21
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	HTR1800W 100-120F
Input Voltage	1 ph, Based on gen voltage
Power	1800W

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

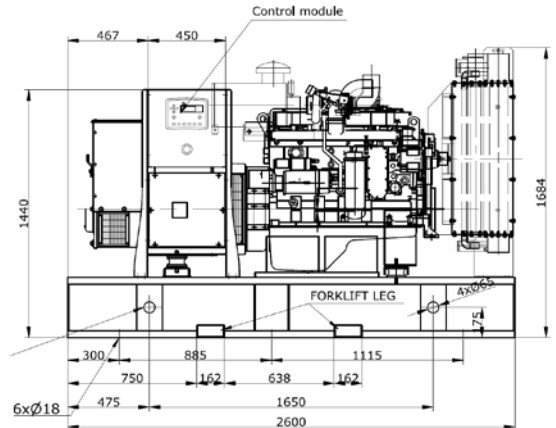


Enclosure Features

- ✓ 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 Hooks
- ✓ Sound Absorb High Density Foam
- ✓ Enclosure DC Light
- ✓ Easy Access Doors for Maintenance

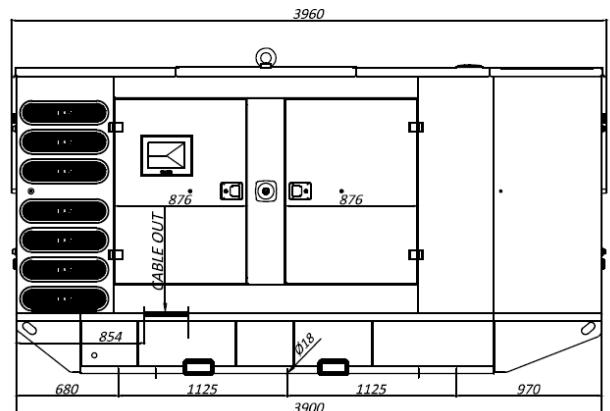
Open Skid Gen-Set Dimensions

Length	2600 mm
Width	1300 mm
Height	1684 mm
Dry Weight	2200 kg
Tank Capacity	470 L



Enclosed Gen-Set Dimensions

Length	3960 mm
Width	1356 mm
Height	2167 mm
Dry Weight	2850 kg
Tank Capacity	470 L
Sound Pressure @ 7 meters	80dBA



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**Standard Features & Accessories**

- ✓ Heavy Duty Steel Base Frame
- ✓ Integral Fuel Tank
- ✓ Fuel Drain Plug
- ✓ Control Panel Window
- ✓ Engine Jacket Water Heater
- ✓ Battery and Battery Rack
- ✓ Battery Charger
- ✓ Radiator fill cap on enclosure
- ✓ 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
- ✓ 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)
- PMG
- Anti-condensation Heater
- Bulk fuel tank
- Double wall 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
- Automatic Transfer Panel (ATS)
- **Please consult with factory for more options.

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