

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	APD345C-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**



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 BACo6A
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

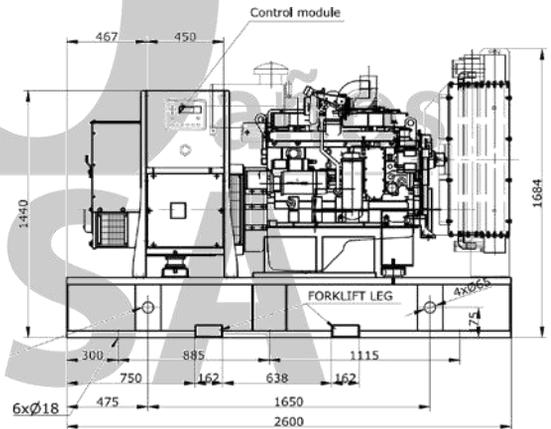


Enclosure Features

- ✓ 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

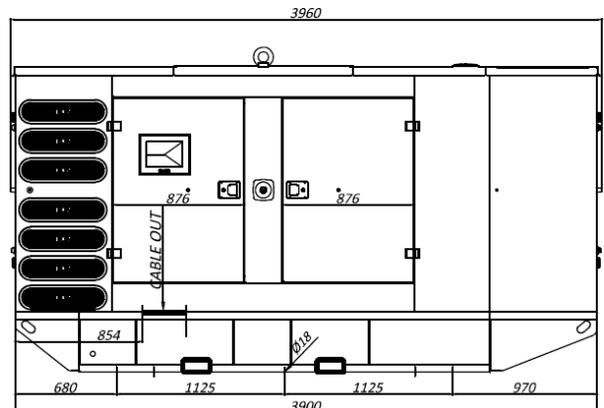
Open Skid Gen-Set Dimensions

Length	2600 mm
Width	1250 mm
Height	1684 mm
Dry Weight	2200 kg
Tank Capacity	470 L



Enclosed Gen-Set Dimensions

Length	3960 mm
Width	1300 mm
Height	2167 mm
Dry Weight	2850 kg
Tank Capacity	470 L
Sound Pressure @ 7 meters	80dBA



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.

*Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

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