

APD-NG1050



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 APD-NG1050

Engine Make PSI (Doosan)

Engine Model 53L

Alternator Make Stamford

Control Panel Make & Model DSE 7320

Frequency & Speed 60Hz, 1800rpm

Enclosure Make & Model AKSA AUL 10A (40 HQ Container)



Genset Rating

Engine	Alternator	Voltage	PF	NG Standby Power	NG Standby Current	LP Gas Standby Power	LP Gas Standby Current
	HCI634K (Wnd-311)	208/120V	0.8	1020kW	3538A	775kW	2688A
53L	HCI634K (Wnd-311)	240/120V	0.8	1020kW	3067A	775kW	2329A
	HCI634K (Wnd-311)	480/277V	0.8	1050kW	1579A	775kW	1166A
	HCI634K (Wnd-7)	600/347V	0.8	1050kW	1263A	775kW	932A

*EPA – Certified for Emergency Stationary Applications

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** according to the UL test program.

The generator set meets **NFPA70**, **99**, **110**, **37** Level 1 when equipped with the necessary accessories and installed per NFPA standards.













APD-NG1050





Engine Data			Electric System		
Manufacturer	PSI		System Voltage (dc)	24V	
Model	53L		Battery Qty, Rating	2 x 143Ah	
Displacement & Cylinders	52.3 L / 10	6 Cylinders	Cooling System		
Engine Type	V-type, 4	Cycle	Radiator Cooling System Type	Closed Circuit	
Engine Speed	1800rpm		Coolant Capacity	65 gal	
Engine Standby Power NG	1185 kWm	1		176°F	
Engine Standby Power LP	892 kWm		Cranking Temperature	,	
Aspiration	Turbo Cha	arge Air Cooled	Full Open Temperature	198 °F	
Compression Ratio	10.5:1		Exhaust System		
Bore / Stroke	150 mm /	185 mm	Туре	Water cooled manifold	
Governor type	Electronic	:	Max. allowable back pressure	13 kPa	
n 10 .		Turbine Outlet Temperature	1212 °F / 655 °C		
Fuel System Fuel Type NG, LP Gas/Dual Fuel		Exhaust Gas Flow at Turbine Outlet Temperature	6855 cfm		
Fuel Type NG Supply pipe size	3.0" NPTI		Air Intake System		
Maximum Fuel System Pressur			Combustion Air Required	2205 cfm	
Recommended Max Pressure	2.7 kPA /	11.0 inH2O	Max Intake Air Restriction (Clean Element)	1.3 kPa / 5.2inH2O	
Recommended Min Pressure	1.7 kPA / ?	7.0 inH2O	Air Filter Type	Dry Paper Element	
Fuel Consumption			Lubrication System		
	Natural Gas	LP Gas	Oil Specifications	SAE 15W-40 Low Ash Gas Engine oil, API CD/CF or higher	
Standby Power (100%)	358 m ³ /h 442 L/h		Oil Capacity, Min-Max	120 – 181 Ots	

(Idle)

87 gal/h

330 L/h

61 gal/h

232 L/h

9721 ft3/h

275 m³/h

6949 ft3/h

197 m³/h

Standby Power (75%)

Standby Power (50%)

Oil Capacity, Min-Max

Min – Max Oil Pressure @1000rpm 53 psi – 82 psi

Oil filter; qt, type

120 - 181 Qts

2, Cartridge

4 bar - 6 bar

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







Alternator	D-1-
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Manufacturer	Stamford
Standards	BS EN 60034
Control System	PMG
A.V.R.	MX321
Voltage Regulation	\pm 0.5 %
Insulation System	Class H
Protection	IP23
Rated Power Factor	0.8
Stator Winding	Double Layer Lap
Winding Pitch	Two Thirds
Winding Leads	12
Telephone Interference	THF < 2 %
Waveform Distortion	0.5 < No Load < 1.5 %
Maximum Over speed	2250 rev/min

Battery Charger & Electrical System Data

Manufacturer	ComAp
Model	InteliCharger
Input Voltage	90V ~ 277V AC
Output Voltage / Current	24V Float / 3A pk

Jacket Water Heater Data

Manufacturer	Hotstart
Model	CKM1060260-000
Input Voltage	240V
Power	6000W

Controller Data

Manufacturer	DSE
Model	7320 MK II

Controller Features & Benefits

Controller Features & Benefits
Microprocessor controlled, UL & NFPA110 Compatible
License free PC Software (Non-proprietary 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, two wire start/stop at Auto mode
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
Load switching (load shedding and dummy load outputs)
Fully configurable via DSE Configuration Suite PC Software

SCADA monitoring via DSE Configuration Suite PC Software **Protection Instruments** Gen. Voltage - under / over Gen. Voltage (L-L/L-N) Gen. Freq. - under / over Gen. Frequency Engine Speed – under / over Engine speed Engine Oil Pressure - low Oil Pressure Engine Temp – low / high Water Temperature Battery Voltage - low / high **Battery Voltage** Weak Battery Run Time Fail to Start / Stop Phase Sequence Power monitoring Charge Alternator Fail (kWh/kVAh/kVArh) Over Current & Load Power (kW/kVAr) (kWh/kVAh/kVArh)

Unbalanced Load

Reverse Power

Loss of Speed Signal

Independent Earth Fault

Power Factor

Generator Current

Generator Load (%) Earth Current





Enclosure Features

- ✓ Heavy Duty Steel / Aluminum Structure
- ✓ E-Stop on Enclosure
- ✓ Control Panel Eliminated from Engine Vibrations
- ✓ Standard Sound Attenuation Foam
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges

Enclosure Features

- ✓ Internally Mounted Exhaust System with Rain Cap
- ✓ Coolant Fill Cap
- ✓ Removable Base Frame Lifting Hooks
- ✓ Oil & Coolant Drain Ports
- ✓ Easy Access for Maintenance

Enclosed Gen-Set Dimensions – Level 1

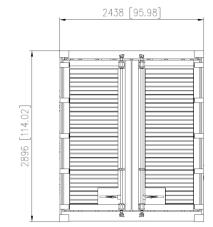
Length 480 in

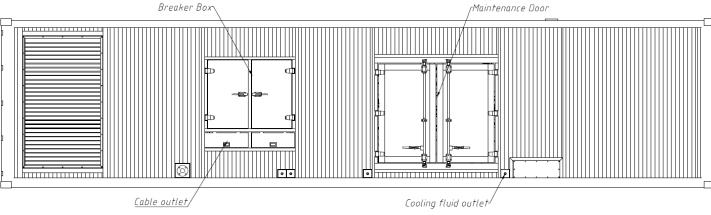
Width w/o lift hooks 95.98 in

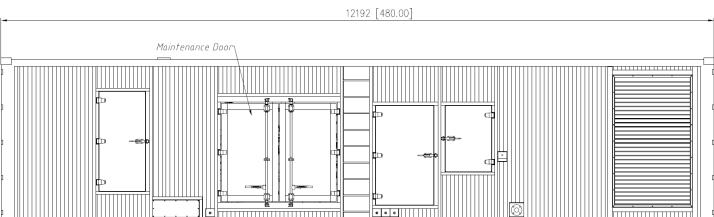
Height w/o Silencer 114.02 in

Dry Weight 43650 lb

Sound Pressure @ 7 meters 80 dBA







APD-NG1050



Standard Features & Accessories

- ✓ UL2200 Certification
- ✓ Heavy Duty Steel Base Frame
- ✓ PMG
- ✓ Engine Jacket Water Heater
- ✓ Battery and Battery Rack
- ✓ Battery Charger
- ✓ Anti Vibration Pads between Engine/Alternator & Base Frame
- ✓ Roof-mounted Critical Grade Silencer
- ✓ Residential Grade Silencer Set for Open Skid Sets
- ✓ Exhaust outlet rain cap and radiator fill cap
- ✓ Sound Absorb Foam Material for Enclosure
- ✓ Emergency Stop Button
- ✓ Oil Drain Valve
- ✓ Coolant Drain Valve
- ✓ Jacket Water Heater Isolation Valves
- ✓ Flex Fuel Lines
- ✓ Secondary Lock-off Valve on Baseframe
- ✓ Engine Manifold Cover
- ✓ Turbocharger Cover
- ✓ Protection Covers for Rotating Parts
- ✓ Exhaust Insulation Cover
- ✓ Enclosure DC Light
- ✓ Operations Manual
- ✓ 24 Months / 2000 hours Limited Standby Warranty

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Optional Accessories

- ☐ Main Line CB (3 / 4 Poles 80% / 100% rated)
- ☐ Upsize Alternator
- ☐ Anti-condensation Heater
- □ Voltage Regulation ±0.5% w/MX321 AVR
- ☐ Gas Regulator
- ☐ NG / LP Auto Changeover Control System
- ☐ Low Gas Pressure Alarm
- ☐ Low Coolant Level Alarm
- Oil Pan Heater
- ☐ 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
- ☐ Battery Charger 10/20 Amp
- ☐ Shunt Trip / Aux Contacts
- ☐ Spring Anti-vibration Isolators
- ☐ Automatic Transfer Panel (ATS)
- ☐ 5 Years / 2000 hours Limited Comprehensive Warranty

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