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-NG800
Engine Make	PSI (Doosan)
Engine Model	40L
Alternator Make	Stamford
Control Panel Make & Model	DSE 7320
Frequency & Speed	60Hz, 1800rpm
Enclosure Make & Model	AKSA AUL 96A



UL2200

NG/LP

Genset Rating

Engine	Alternator	Voltage	PF	NG Standby Power	NG Standby Current	LP Gas Standby Power	LP Gas Standby Current
	HCI634H (Wnd-311)	208/120V	0.8	800kW	2776A	480kW	1665A
40L	HCI634H (Wnd-312)	240/120V	0.8	800kW	2406A	480kW	1443A
	HCI634G (Wnd-312)	480/277V	0.8	800kW	1203A	480kW	722A
	HCI634H (Wnd-7)	600/347V	0.8	800kW	962A	480kW	577A

*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.



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AKSA POWER GENERATION

PSI

NG40L

39.2 L / 12 Cylinders

Turbo Charge Air Cooled

150 mm / 185 mm

NG, LP Gas/Dual Fuel

2.7 kPA / 11.0 inH2O

1.7 kPA / 7.0 inH2O

2.7 kPA / 11.0 inH2O

V-type, 4 Cycle

1800rpm

920kWm

584kW

10.5:1

Electronic

3.0" NPTF

N/A





Engine Data

Displacement & Cylinders

Engine Standby Power NG

Engine Standby Power LP

Manufacturer

Engine Type

Engine Speed

Aspiration

Bore / Stroke

Governor type

Fuel System

NG Supply pipe size

Maximum EPR Rated Pressure

Recommended Max Pressure

Recommended Min Pressure

Max LPG vapor Pressure to EPR

Fuel Type

Compression Ratio

Model

Electric	System

System Voltage (dc)	24V
Battery Qty, Rating	2 x 143Ah

Cooling System

Radiator Cooling System Type	Closed Circuit
Coolant Capacity	45.4 gal
Cranking Temperature	160°F

198 °F

Dry Paper Element

Exhaust System

Full Open Temperature

Туре	Water cooled manifold
Max. allowable back pressure	13 kPa
Turbine Outlet Temperature	1238 °F / 670 °C
Exhaust Gas Flow at Rated	4920 cfm

Power

Air Intake System

Combustion Air Required	1591 cfm
Max Intake Air Restriction (Clean Element)	1.3 kPa / 5.2inH2O

Air Filter Type

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%)	10109ft³/h 286 m³/h	83 gal/h 313 L/h	Oil Conggity Min May	127 – 154 Qts	
Standby Power (75%)	7503 ft ³ /h 212 m ³ /h	62 gal/h 236 L/h	Oil Capacity, Min-Max		
Standby Power (50%)	5410 ft ³ /h 153 m ³ /h	43 gal/h 165 L/h	Oil filter; qt, type	2, Cartridge	
			Min – Max Oil Pressure at Rated Speed	47psi – 57 psi 3,24 bar – 3,93 bar	

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APD-NG800



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SCADA monitoring via DSE Configuration Suite PC Software

✓ Engine Temp – low / high

✓ Loss of Speed Signal

Alternator Data

Controller	Data

Manufacturer	Stamford	Manufacturer	DSE	
Standards	BS EN 60034	Model	7320 MK II	
Control System	PMG	Controller Features & B	enefits	
A.V.R.	MX321	Microprocessor controlled, UL & N	FPA110 Compatible	
Voltage Regulation	\pm 0.5 %	License free PC Software (Non-pro	prietary Software)	
Insulation System	Class H	IP65 rating offers increased resista	nce to water ingress	
·		Modules can be integrated to building management systems		
Protection	IP23	Real time clock provides accurate e	vent log	
Rated Power Factor	0.8	Four line back-lit LCD text display		
Stator Winding	Double Layer Concentric	Five key menu navigation, two wire	e start/stop at Auto mode	
	m ml'l	Front panel editing with PIN protection		
Winding Pitch	Two Thirds	Support up to three remote display	modules	
Winding Leads	6	Configurable timers and alarms		
Telephone Interference	THF < 2 %	Multiple date and timer scheduler		
Waveform Distortion	No Load < 1.5 %	Integral PLC editor		
wavelor in Distortion	No Loau < 1.5 %	'Protections disabled' feature		
Maximum Over speed	2250 rev/min	Load switching (load shedding and	dummy load outputs)	
Pottomy Changon & Elast	migal System Data	Fully configurable via DSE Configu	ration Suite PC Software	

Battery Charger & Electrical System Data

Manufacturer	ComAp	Protection	Instruments	
Model	InteliCharger	✓ Gen. Voltage – under / over	✓ Gen. Voltage (L-L/L-N)	
Input Voltage	$85V \sim 264V AC$	✓ Gen. Freq. – under / over	✓ Gen. Frequency	
Output Voltage / Current	13.8V Float / 4A pk	✓ Engine Speed – under / over	✓ Engine speed	
Sulput Foluge, Ourfelit	13.01 Hour / 411 pk	✓ Engine Oil Pressure – low	✓ Oil Pressure	

Jacket Water Heater Data

		✓ Battery Voltage – low / high	\checkmark	Battery Voltage
Manufacturer	Hotstart	✓ Weak Battery	✓	Run Time
Model	CKM1060260-000	✓ Fail to Start / Stop	\checkmark	Phase Sequence
Input Voltage	240V	✓ Charge Alternator Fail	~	Power monitoring (kWh/kVAh/kVArh)
		 ✓ Over Current & Load (kW/kVAr) 	√	Power (kWh/kVAh/kVArh)
Power 6	6000₩ ✓	✓ Unbalanced Load	✓	Power Factor
		✓ Independent Earth Fault	✓	Generator Current
		✓ Reverse Power	✓	Generator Load (%)

Water Temperature

Earth Current

✓

√

APD-NG800



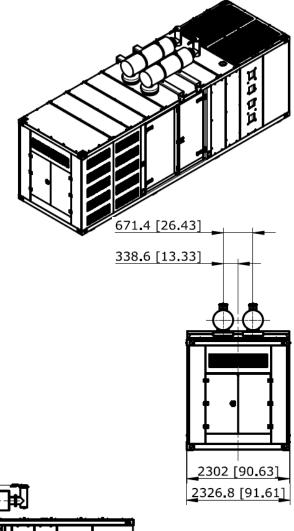


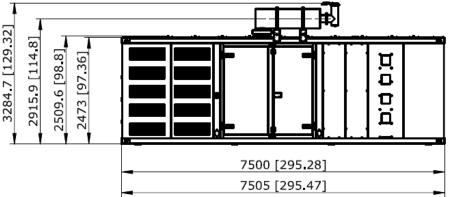
Enclosure Features

- ✓ 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





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Open Skid Gen-Set Dimensions

Length	185.43 in
Width	68.89 in
Height	99.60 in
Dry Weight	TBD

Enclosed Gen-Set Dimensions – Level 1

Length	295.47 in
Width w/o lift hooks	91.61 in
Height w/o Silencer	98.8 in
Height with Silencer	129.3 in
Dry Weight	23150 lb
Sound Pressure @ 7 meters	80 dBA

APD-NG800



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



Optional Accessories

- □ Main Line CB (3 / 4 Poles 80% / 100% rated)
- Upsize Alternator
- Anti-condensation Heater
- \square Voltage Regulation $\pm 0.5\%$ w/MX321 AVR
- Gas Regulator
- ING / 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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