





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-NG830

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



Genset Rating

Engine	Alternator	Voltage	PF	NG Standby Power	NG Standby Current	LP Gas Standby Power	LP Gas Standby Current
40L	HCI634H (Wnd-311)	208/120V	0.8	820kW	2845A	510kW	1770A
	HCI634H (Wnd-311)	240/120V	0.8	820kW	2466A	510kW	1534A
	HCI634H (Wnd-311)	480/277V	0.8	830kW	1248A	510kW	767A
	HCI634H (Wnd-7)	600/347V	0.8	830kW	998A	510kW	613A

*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-NG830





153 m³/h

165 L/h

Engine Data			Electric System		
Manufacturer	PSI		System Voltage (dc)	24V	
Model	NG40L		Battery Qty, Rating	2 x 143Ah	
Displacement & Cylinders	39.2 L / 1	2 Cylinders	Cooling System		
Engine Type	V-type, 4	Cycle	Radiator Cooling System Type	Closed Circuit	
Engine Speed	180orpm		Coolant Capacity	45 4 gol	
Engine Standby Power NG	920kWm			45.4 gal	
Engine Standby Power LP	584kW		Cranking Temperature	160°F	
Aspiration	Turbo Ch	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	Electroni	c	Max. allowable back pressure	13 kPa	
Fuel System		Turbine Outlet Temperature	1238 °F / 670 °C		
Fuel Type	NG, LP G	as/Dual Fuel	Exhaust Gas Flow at Rated Power	4920 cfm	
NG Supply pipe size	3.0" NPT		Air Intake System		
Maximum EPR Rated Pressu	re N/A		Combustion Air Required	1591 cfm	
Recommended Max Pressure	e 2.7 kPA /	11.0 inH2O	Max Intake Air Restriction	1 o kPo / z oinHoO	
Recommended Min Pressure	1.7 kPA /	7.0 inH2O	(Clean Element)	1.3 kPa / 5.2inH2O	
Max LPG vapor Pressure to F	EPR 2.7 kPA /	11.0 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%)	10109ft ³ /h 286 m ³ /h	83 gal/h 313 L/h	Oil Capacity, Min-Max	127 – 154 Qts	
Standby Power (75%)	7503 ft ³ /h 212 m ³ /h	62 gal/h 236 L/h			
Standby Power (50%)	5410 ft³/h 153 m³/h	43 gal/h 165 L/h	Oil filter; qt, type	2, Cartridge	

Speed

Min – Max Oil Pressure at Rated

47psi – 57 psi

3,24 bar - 3,93 bar

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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 Concentric
Winding Pitch	Two Thirds
Winding Leads	6
Telephone Interference	THF < 2 %
Waveform Distortion	No Load < 1.5 %
Maximum Over speed	2250 rev/min

Battery Charger & Electrical System Data

Manufacturer	ComAp
Model	InteliCharger
Input Voltage	85V ~ 264V AC
Output Voltage / Current	13.8V Float / 4A pk

Jacket Water Heater Data

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

Controller Data

Manufacturer	DSE
Model	7320 MK II

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		
✓ Charge Alternator Fail	✓ Power monitoring (kWh/kVAh/kVArh)		
✓ Over Current & Load (kW/kVAr)	✓ Power (kWh/kVAh/kVArh)		
✓ Unbalanced Load	✓ Power Factor		
✓ Independent Earth Fault	✓ Generator Current		
✓ Reverse Power	✓ Generator Load (%)		

✓ Loss of Speed Signal

✓ 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

Open Skid Gen-Set Dimensions

Length 185.43 in

Width 68.89 in

Height 99.60 in

Dry Weight 23655 lb

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

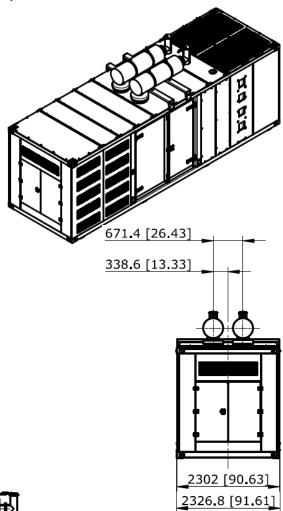
Height with Silencer 129.3 in

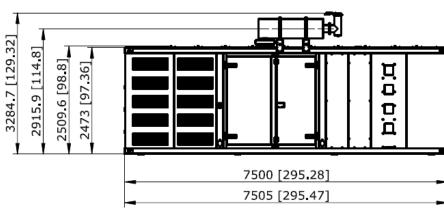
Dry Weight 15000 lb

Sound Pressure @ 7 meters 80 dBA

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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APD-NG830



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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