

APD-NG250



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-NG250

Engine Make PSI

Engine Model 13L

Alternator Make Stamford

Control Panel Make & Model DSE 7320

Frequency & Speed 60Hz, 1800rpm

Enclosure Make & Model AKSA AUL 71/72



Genset Rating

Engine	Alternator	Voltage	PF	NG Standby Power	NG Standby Current	LP Gas Standby Power	LP Gas Standby Current
13L	HCI444D (Wnd-311)	480/277V	0.8	250kW	375A	140kW	210.5A
	HCI444D (Wnd-311)	240/120V	0.8	250kW	752A	140kW	421A
	HCI444D (Wnd-311)	208/120V	0.8	250kW	867A	140kW	485.7A
	UCDI274K (Wnd-17)	600/347V	0.8	250kW	301A	140kW	168.4A

*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-NG250



Engine Data		Electric System				
Manufacturer	PSI		System Voltage (dc)	24V		
Model	13L		Battery Qty, Rating	2 x 120Ah		
Displacement & Cylinders	12.54L / 6	6 Cylinders	Cooling System			
Engine Type	V-type, 4	Cycle	Radiator Cooling System Type	Closed Circuit		
Engine Speed	1800rpm		Coolant Capacity	20.1 gal		
Engine Standby Power NG	300 kW		Cranking Temperature	169 °F		
Engine Standby Power LP	181 kW		Full Open Temperature	190 °F		
Aspiration	Turbo Cha	arge Air Cooled	run Open Temperature	150 1		
Compression Ratio	9.75:1		Exhaust System			
Bore / Stroke	127 mm /	165.1 mm	Туре	Water cooled manifold		
Governor type	Electronic	:	Max. allowable back pressure	15 kPa		
Fuel System			Max Turbine Inlet Temperature	1382 °F		
Fuel System		Exhaust Gas Flow at Turbine Outlet Conditions	1855 cfm			
Fuel Type NG, LP Gas/Dual Fuel Min NG Supply pipe size 1 1/4" NPTF		Air Intake System				
Min NG Supply pipe size 1 ½ " NPTF Maximum EPR Rated Pressure 6.9 kPa / 1.0 psi		Combustion Air Required	575 cfm			
Maximum EPR Rated Pressure 6.9 kPa / 1.0 psi Recommended Max Pressure 2.7 kPA / 10.8 inH2O			ovo cim			
Recommended Min Pressure	1.7 kPA / 6.8 inH2O		Max Intake Air Restriction (Clean Element)	3.0 kPa / 12 inH2O		
recommended with ressure			Air Filter Type	Dry Paper Element		
Fuel Consumption			Lubrication System			
Na 34	Natural Gas LP Gas 418 cfh 26 gal/h 17 m ³ /hr 97 L/hr		Oil Specifications	SAE 15W-40 Low Ash Gas Engine oil, API CD/CF or higher		
Standby Power (100%)		97 L/hr	Oil Pan Capacity, Min-Max	28.0 - 31.7 Qts		
97			On I an Capacity, willi-wax	20.0-31.7 Qt3		
. 97			Oil filter; qt, type	2, Cartridge		





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Manufacturer	Stamford
Standards	BS EN 60034
Control System	PMG
A.V.R.	MX341
Voltage Regulation	\pm 1 %
Insulation System	Class H
Protection	IP23
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	ComAp
Model	InteliCharger
Input Voltage	85V ~ 264V AC
Output Voltage / Current	13.8V Float / 4A pk

Jacket Water Heater Data

Jucket Water Heater Data				
Manufacturer	Hotstart			
Model	CTM25110-N00			
Input Voltage	120V			
Power	2500W			

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 Configu	uration 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

Loss of Speed Signal

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

Open Skid Gen-Set Dimensions

Length 158 in

Width w/o lift hooks 75 in

Height 65 in

Dry Weight 9000 lb

Enclosed Gen-Set Dimensions – Level 1

Length 206 in

Width w/o lift hooks 77 in

Height 90 in

Dry Weight 13000 lb

Sound Pressure @ 7 meters 78 dBA

Enclosed Gen-Set Dimensions – Level 2

Length 224.6 in

Width w/o lift hooks 77 in

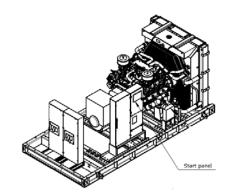
Height 89.9 in

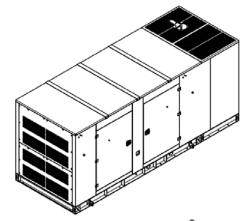
Dry Weight 13400 lb

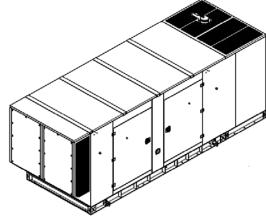
Sound Pressure @ 7 meters 75 dBA

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







APD-NG250



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
- ✓ Critical Grade Silencer Inside Enclosure
- ✓ 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
- lue Voltage Regulation $\pm 0.5\%$ w/MX321 AVR
- □ Gas Regulator
- $\hfill \square$ 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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