





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-NG150

Engine Make PSI

Engine Model 8.8LT-CAC

Alternator Make Stamford

Control Panel Make & Model DSE 7320

Frequency & Speed 60Hz, 1800rpm

Enclosure Make & Model AKSA AUL 51/52



Genset Rating

| Engine | Alternator | Voltage | PF | NG Standby Power | NG Standby Current | LP Gas Standby Power | LP Gas Standby Current |
|----------|-------------------|--------------|-----|------------------------|--------------------------|----------------------------|------------------------------|
| 8.8LTCAC | UCI274F (Wnd-311) | 480/277V | 0.8 | 150kW | 226A | 125kW | 188A |
| | UCI274F (Wnd-06) | 240/120V,1ph | 1 | 150kW | 625A | 125kW | 520A |
| | UCI274F (Wnd-311) | 208/120V | 0.8 | 150kW | 521A | 125kW | 434A |
| | UCI274E (Wnd-17) | 600/347V | 0.8 | 150kW | 180A | 125kW | 150A |

*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.



















| Engine Data | | | Electric System | | |
|------------------------------|------------------------|-----------------------|--|-----------------------|--|
| Manufacturer | PSI | | System Voltage (dc) | 12V | |
| Model | 8.8LT-CA | С | Battery Qty, Rating | 1 x 80Ah, | |
| Displacement & Cylinders | 8.8 L / 8 C | Cylinders | Cooling System | | |
| Engine Type | V-type, 4 | Cycle | Radiator Cooling System Type | Closed Circuit | |
| Engine Speed | 1800rpm | | Coolant Capacity, engine only | 14.5 quart | |
| Engine Standby Power NG | 194.98kW | 7 | Cranking Temperature | 160°F | |
| Engine Standby Power LP | 171.60kW | | Full Open Temperature | 185 °F | |
| Aspiration | Forced In | duction | | 100 1 | |
| Compression Ratio | 10.1:1 | | Exhaust System | | |
| Bore / Stroke | 110.5 mm | / 114.3 mm | Туре | Air cooled manifold | |
| Governor type | Electronic | : | Max. allowable back pressure | 10.2 kPa | |
| Fuel System | | | Cont. rating catalyst configuration | Dual Substrate | |
| Fuel Type | NG, LP Ga | as/Dual Fuel | Exhaust Gas Flow at Rated Power @ 1350 °F | 1177.5 cfm | |
| Min NG Supply pipe size | 1-1/4" NP | Т | Air Intake System | | |
| Min LPG Supply pipe size | 3/4" | | Combustion Air Required | 364.6 cfm | |
| Maximum EPR Rated Pressure | e 6.9 kPa / 1 | 1.0 psi | Max Intake Air Restriction | 1 40 kPa | |
| Recommended Max Pressure | 2.7 kPA / | 11.0 inH2O | (Clean Element) | 1.49 kPa | |
| Recommended Min Pressure 1.7 | | 7.0 inH2O | Air Filter Type | Dry Paper Element | |
| Fuel Consumption | | Lubrication System | | | |
| | Natural Gas | LP Gas | Oil Specifications | SAE 5W-30 API | |
| Standby Power (100%) | 1965 cfh 55.7 m³/hr | 713 cfh 20.2 m³/hr | • | Rating SM or Newer | |
| Standby Power (75%) | 1529 cfh 43.3 m³/hr | 547 cfh 15.5 m³/hr | Oil Pan Capacity | 8.0 Qts | |
| Standby Power (50%) | 1102 cfh 31.2 m³/hr | 399 cfh 11.3 m³/hr | Oil filter; qt, type | 1, Cartridge | |
| Standby Power (25%) | $688cfh\\19.5m^3/hr$ | 254 cfh 7.2 m³/hr | Max allowable oil temp | 250°F | |





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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

| Judict Water French Butu | | |
|--------------------------|----------------|--|
| Manufacturer | Hotstart | |
| Model | TPS151GT10-000 | |
| Input Voltage | 120V | |
| Power | 1500W | |
| | | |

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 Power monitoring **Charge Alternator Fail** (kWh/kVAh/kVArh) Over Current & Load Power (kW/kVAr) (kWh/kVAh/kVArh) Unbalanced Load **Power Factor**

Independent Earth Fault

Reverse Power

Loss of Speed Signal

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

Open Skid Gen-Set Dimensions

Length 116 in

Width w/o lift hooks 43.3 in

Height 54 in

Dry Weight 3200 lb

Enclosed Gen-Set Dimensions – Level 1

Length 145.7 in

Width w/o lift hooks 43.3 in

Height 66.4 in

Dry Weight 4725 lb

Sound Pressure @ 7 meters 76 dBA

Enclosed Gen-Set Dimensions – Level 2

Length 145.7 in

Width w/o lift hooks 43.3 in

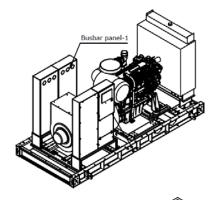
Height 82 in

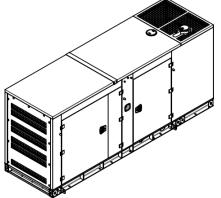
Dry Weight 5100 lb

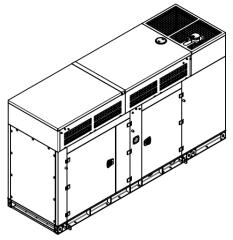
Sound Pressure @ 7 meters 72 dBA

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-NG150



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
- ☐ 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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