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 |
|--------|-------------------|----------|-----|------------------------|--------------------------|----------------------------|------------------------------|
| | S6L1D-F (Wnd-311) | 208/120V | 0.8 | 1020kW | 3538A | 775kW | 2688A |
| 53L | S6L1D-F (Wnd-311) | 240/120V | 0.8 | 1020kW | 3067A | 775kW | 2329A |
| | S6L1D-F (Wnd-311) | 480/277V | 0.8 | 1050kW | 1579A | 775kW | 1166A |
| | S6L1D-F (Wnd7) | 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.



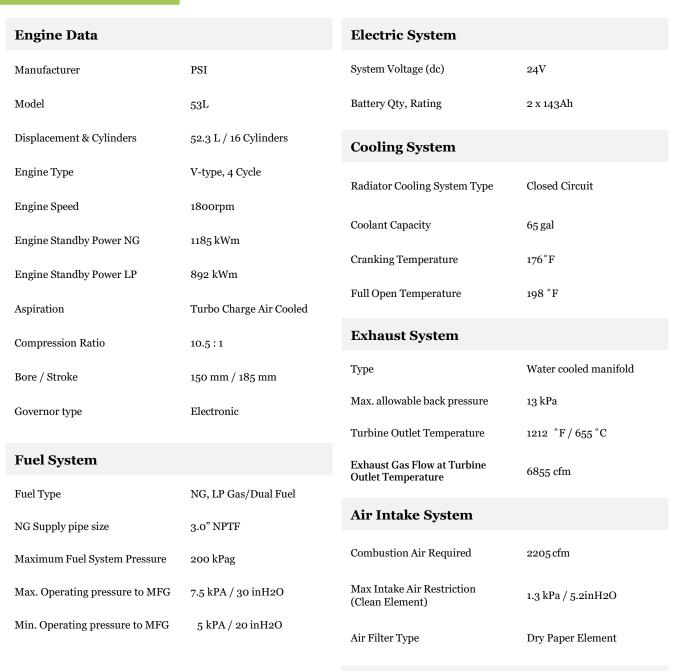
*Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice,

UL2200

NG/LP

APD-NG1050





Fuel Consumption

| | Natural Gas | LP Gas | Oil Specifications | SAE 15W-40 Low Ash Gas Engine oil, API CD/CF or higher | |
|----------------------|--|----------------------|---|--|--|
| Standby Power (100%) | 12626ft ³ /h 358 m ³ /h | 117 gal/h 442 L/h | Oil Capacity, Min-Max | 120 – 181 Ots | |
| Standby Power (75%) | 9721 ft³/h 275 m³/h | 87 gal/h 330 L/h | On Capacity, Min-Max | 120 - 101 Qts | |
| Standby Power (50%) | 6949 ft³/h 197 m³/h | 61 gal/h 232 L/h | Oil filter; qt, type | 2, Cartridge | |
| | | | Min – Max Oil Pressure @1000rpm (Idle) | 53 psi – 82 psi 4 bar – 6 bar | |

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UL2200

NG/LP

APD-NG1050



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Fully configurable via DSE Configuration Suite PC Software

SCADA monitoring via DSE Configuration Suite PC Software

✓ Engine Temp – low / high

Alternator Data

| Alternator Data | | Controller Data | | |
|-----------------------|---|---|--|--|
| Stamford | Manufacturer | DSE | | |
| BS EN 60034 | Model | 7320 MK II | | |
| PMG | Controller Features & Benefits | | | |
| MX321 | Microprocessor controlled, UL & NFPA110 Compatible | | | |
| \pm 0.5 % | License free PC Software (Non-proprietary Software) | | | |
| Class H | IP65 rating offers increased resistance to water ingress Modules can be integrated to building management systems Real time clock provides accurate event log | | | |
| IP23 | | | | |
| 0.8 | Four line back-lit LCD text display | | | |
| Double Layer Lap | Five key menu navigation, two wire start/stop at Auto mode | | | |
| Two Thirds | Front panel editing with PIN prote | ction | | |
| | Support up to three remote display | modules | | |
| 12 | Configurable timers and alarms | | | |
| THF < 2 % | Multiple date and timer scheduler | | | |
| 0.5 < No Load < 1.5 % | Integral PLC editor | | | |
| | 'Protections disabled' feature | | | |
| 2250 rev/min | Load switching (load shedding and dummy load outputs) | | | |
| | BS EN 60034 PMG MX321 $\pm 0.5\%$ Class H IP23 0.8 Double Layer Lap Two Thirds 12 THF < 2% 0.5 < No Load < 1.5\% | StamfordManufacturerBS EN 60034ModelPMGController Features & BMX321Microprocessor controlled, UL & N± 0.5 %License free PC Software (Non-proClass HIP65 rating offers increased resista Modules can be integrated to build Real time clock provides accurate e0.8Four line back-lit LCD text displayDouble Layer LapFive key menu navigation, two wire Support up to three remote display12Configurable timers and alarmsTHF < 2 % | | |

Battery Charger & Electrical System Data

| Manufacturer | ComAp | Protection | Instruments | |
|--------------------------|-------------------|-------------------------------|--------------------------|--|
| Model | InteliCharger | ✓ Gen. Voltage – under / over | ✓ Gen. Voltage (L-L/L-N) | |
| Input Voltage | 90V ~ 277V AC | ✓ Gen. Freq. – under / over | ✓ Gen. Frequency | |
| Output Voltage / Current | 24V Float / 3A pk | ✓ Engine Speed – under / over | ✓ Engine speed | |
| | | ✓ Engine Oil Pressure – low | ✓ Oil Pressure | |

Jacket Water Heater Data

| | | ✓ Battery Voltage – low / high ✓ | Battery Voltage |
|---------------|----------------|--|--------------------------------------|
| Manufacturer | Hotstart | ✓ Weak Battery ✓ | Run Time |
| Model | CKM1060260-000 | ✓ Fail to Start / Stop ✓ | Phase Sequence |
| Input Voltage | 240V | ✓ Charge Alternator Fail $✓$ | Power monitoring (kWh/kVAh/kVArh) |
| 1 0 | 6000W | ✓ Over Current & Load ✓ (kW/kVAr) | Power (kWh/kVAh/kVArh) |
| Power | | ✓ Unbalanced Load ✓ | Power Factor |
| Pcs. | 2 | Independent Earth Fault | Generator Current |
| | | ✓ Reverse Power ✓ | Generator Load (%) |
| | | ✓ Loss of Speed Signal $✓$ | Earth Current |

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✓ Water Temperature

APD-NG1050



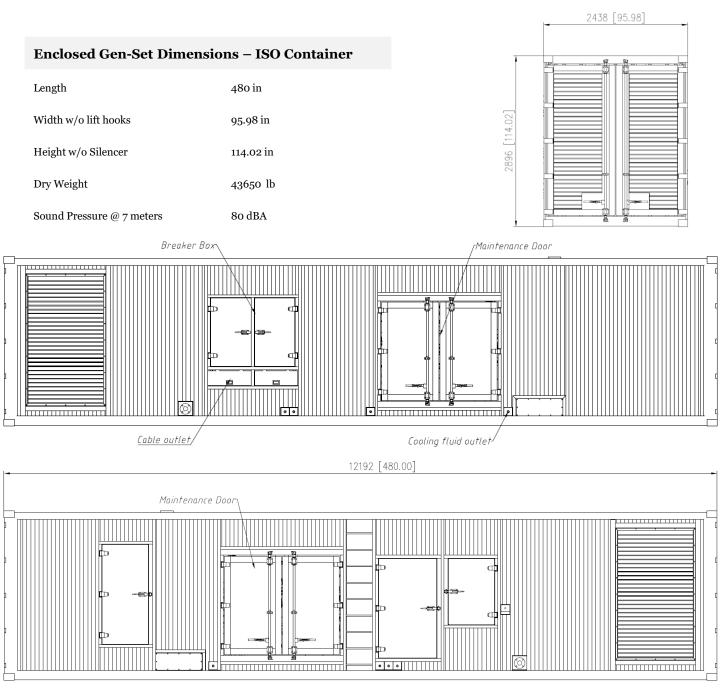
Enclosure Features

AKSA POWER GENERATION

- ✓ 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

- $\checkmark~$ 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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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

DISTRIBUTED BY:

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