

101 kVA / 80.8 kW POWERED by LOVOL

LOVOL







DIESEL GENERATING SET 400/230 V - 50 Hz

MODEL			APD101L
Power Pf. 0.8	Standby	∣ kVA	i 101
		l kW	80.8
	Prime	kVA	9 2 1
		l kW	73.6

Standby : Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046. Prime : Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period. In accordance with ISO 8528,ISO 3046.

 \checkmark High quality, reliable and complete power unit

✓ Compact design

✓ Easy start and maintenance possibility

✓ Every generating set is subject to a comprehensive test program which includes full load testing, checking and provision of all control and safety shut down functions testing

✓ Fully engineered with a wide range of options and accessories: Canopy, sound proof canopy and on-road trailer













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

AKSA POWER GENERATION

ENGINE

LOVOL

LOVOL						
Model	1	1006TG1A				
Engine Power Output	kWm	92.7				
at rated rpm	HP	124.3107				
Aspiration and Cooling		Turbocharged				
Total Displacement	Litre	· 5.99 ·				
No. of Cylinders and Build	1	6 - Inline				
Engine Speed	rpm	· 1500 ·				
Bore and Stroke	🕛 mmxmm	100x127				
Compression Ratio		17.5:1				
Governor	1	Mech./Electr.				
Fuel Consumption at full load	L/hr	· 21.1 ·				
Fuel Tank Capacity	Litre	Open: 195/Canopy: 195				
Oil Capacity	Litre	· 16.1 ·				
Coolant Capacity	Litre	27.7				
Radiator Cooling Air	m³/min	115				
Air Intake – Engine	m³/min	5.45				
Exhaust Gas Flow	m³/min	15.56				

✓ Heavy duty Lovol diesel engine

- ✓ Four stroke, water cooled, turbocharged
- ✓ Direct injection fuel system
- ✓ Mechanical / Elect. Governor system
- ✓ 12 V D.C. starter and charge alternator
- ✓ Replaceable fuel filter, oil filter and dry element air filter

✓ Cooling radiator and fan

- ✓ Starter battery (with lead acid) including Rack and Cables
- ✓ Flexible fuel connection hoses and manual oil sump drain valve
- Industrial capacity exhaust silencer and steel bellows
- ✓ Jacket water heater(at automatic models)
- ✓ Operation manuals and circuit diagram documents

ALTERNATOR

Design	Brushless single bearing, revolving field		
Stator	2/3 pitch		
Rotor	Single bearing, flexible disc		
Insulation System	Class H		
Standard Temperature Rise	125 - 163°C Continuous		
Exciter Type	Self Excited		
Phase Rotation	⊢ A (U), B (V), C (W)		
Alternator Cooling	Direct drive centrifugal blower fan		
AC Waveform Total Harmonic Distortion	No load < 1.5%. Non distorting balanced linear load < 5%		
Telephone Influence Factor (TIF)	<pre>><50 per NEMA MG1-22.43</pre>		
Telephone Harmonic Factor (THF)	J<2%		
Brushless, single bearing system, flexible disc, 4 poles / Impregnation with tropicalised epoxy varnish			

- ✓ Insulation class H
- ✓ Standard degree of protection IP21 (*IP22/IP23 is availab.) ✓ Stator winding with 2/3 pitch for improved harmonics
- ✓ Self-exciting and self-regulating

- ✓ Solid state Automatic Voltage Regulator

CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

1. Auto Mains Failure Control Panel

Panel equipments:

- ✓ Control with AMF module
- ✓ Static battery charger
- ✓ Emergency stop push button

aksa POWER

a) Generating set control module DSE 6020 features:

- ✓ The module is used to monitor main supply and starts and stops of a standby generating set
- ✓ Micro-processor based design
- ✓ Automatic control of main and generator contactors
- ✓ Monitors engine performance and AC power output LED alarm indication
- ✓ Front panel configuration of timers and alarm trip points
- ✓ CAN and magnetic pick-up versions(specify on ordering)
- ✓ 4 digital inputs/3 analogue inputs
- ✓ 6 outputs(4 configurable on Magnetic Pick-up, 6 configurable on CANbus version)

Generator kVA

Generator kW

Generator Cos (σ)

 Easy push button control STOP/RESET - MANUAL - AUTO - TEST – START

b) Metering via LED display:

- ✓ Generator Volts (L-L / L-N)
- ✓ Engine oil pressure (PSI-Bar)
- ✓ Generator Ampere (L1,L2,L3)
- ✓ Engine temperature (° C&° F)
- ✓ Generator Frequency (Hz)
- ✓ Plant battery volts
- ✓ Engine hours run
- ✓ Mains Volts (Ph-Ph/Ph-N)

OPTIONAL EQUIPMENTS

Diesel Engine

✓ Oil heater

Alternator

- ✓ 3/4 Pole Output Circuit Breaker
- ✓ Anti-condensation Heater

Panel

- ✓ Charge ammeter
- ✓ Transfer Switch 3Pole
- ✓ Transfer Switch 4 Pole
- ✓ Earth Fault ,single set



DSE 6020

c) Alarms:

- ✓ Over and Under Speed
- ✓ Low and High Battery Volt.
- ✓ Start and Stop Failure
- ✓ Charge fail
- ✓ Over Current
- ✓ Under / Over Generator Voltage
- ✓ Low Oil Pressure
- ✓ Emergency stop
- ✓ High engine temperature

d) LED Indications:

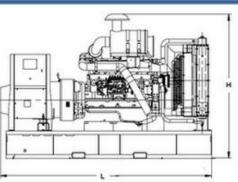
- ✓ Mains available
- ✓ Generator available
- ✓ Mains on load
- ✓ Generator on load

2. Power Outlet Terminal Board Mounted on the Gen-set Base frame

Accessories

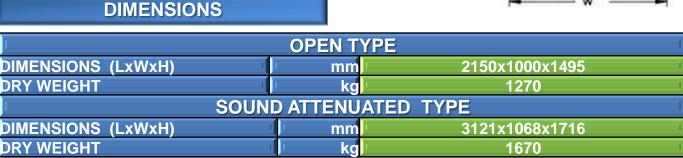
- ✓ Bulk fuel tank
- ✓ Automatic filling system
- ✓ Fuel-water separator filter
- \checkmark Low fuel level alarm
- ✓ Residential silencer
- \checkmark Enclosure or sound proof canopy
- ✓ Trailer
- ✓ Manual oil drain pump
- ✓ Tool kit for maintenance

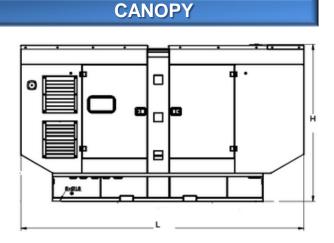
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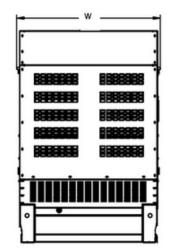
✓ The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame

- ✓ Antivibration pads are fixed between the engine/ alternator feet and the base frame
- ✓ Base frame design incorporates an integral fuel tank (Up to 750 kVA)
- ✓ The generating set can be lifted or carefully pushed/ pulled by the base frame
- ✓ Dial type fuel gauge and drain plug on the fuel tank
- ✓ Forklift pockets within base frame (up to 500kVA)





- ✓ All canopy parts are designed with modular principles
- ✓ Without welding assembly
- ✓ Doors on each side
- ✓ All metal canopy parts are painted by electrostatic polyester powder paint



- ✓ Exhaust silencer is protected against environment influences
- ✓ Thermally insulated engine exhaust system
- ✓ Emergency stop push button is installed outside of the canopy
- ✓ Easy lifting and moving
- ✓ Easy maintenance and operation

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