











DIESEL GENERATING SET 400/230 V - 50 Hz

MODEL			APD33L
Power Pf. 0.8	Standby	kVA	33
		kW	26.4
	Prime	kVA	30
		kW	24

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.

- ✓ 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













ENGINE

	_
LUV	_
	_

LOVOL					
Model	1	1003G			
Engine Power Output	kWm	31			
at rated rpm	HP	41.571			
Aspiration and Cooling		Natural Natural			
Total Displacement	Litre	2.99			
No. of Cylinders and Build	1	3- Inline			
Engine Speed	rpm	1500			
Bore and Stroke	mmxmm	100x127			
Compression Ratio	1	16.5:1			
Governor		Mech./Electr.			
Fuel Consumption at full load	L/hr	7.2			
Fuel Tank Capacity	Litre	Open: 154/Canopy: 154			
Oil Capacity	Litre	8.1			
Coolant Capacity	Litre	17			
Radiator Cooling Air	m³/min	53			
Air Intake – Engine	m³/min	2.16			
Exhaust Gas Flow	m³/min	5.6			

- √ Heavy duty Lovol diesel engine
- ✓ Four stroke, water cooled, natural aspiration
- ✓ 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
AC Waveform Total Harmonic Distortion	inear load < 5%
Telephone Influence Factor (TIF)	<50 per NEMA MG1-22.43
Telephone Harmonic Factor (THF)	 <2%

- Brushless, single bearing system, flexible disc, 4 poles
- 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

- ✓ Impregnation with tropicalised epoxy varnish
- ✓ 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

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)
- ✓ 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
- I lant battery voits
- ✓ Engine hours run
- ✓ Mains Volts (Ph-Ph/Ph-N)

Generator kVA

Generator kW

Generator Cos (σ)



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

OPTIONAL EQUIPMENTS

Diesel Engine

✓ Oil heater

Alternator

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

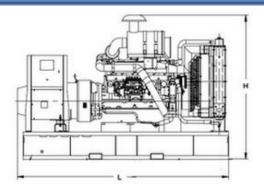
Panel

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

Accessories

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

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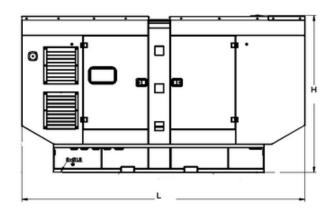


- √ The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- ✓ Antivibration pads are fixed between the engine/ alternator feet and the base frame
- ✓ Base frame design incorporates an integral fuel tank (Up to 750 kVA)
- √ The generating set can be lifted or carefully 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)

DIMENSIONS

OPEN TYPE						
DIMENSIONS (LxWxH)	mm	1860x900x1280				
DRY WEIGHT	kg	850				
SOUND ATTENUATED TYPE						
DIMENSIONS (LxWxH)	mm	2491x965x1552				
DRY WEIGHT	l kg	1100				

CANOPY



- ✓ 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



Tel:+90 212 478 66 66 Fax:+90 212 657 55 16 E-mail: aksa@aksapowergen.com

www.aksapowergen.com

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