APD900P

BPerkins

KSa POWER CENERATION





900KVA / 720KW POWERED by PERKINS

DIESEL GENERATING SET 400/230 V - 50 Hz

	MODEL		APD900P
Power Pf. 0.8	Standby	kVA	900
		kW	720
	Prime	kVA	810
		kW	648

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





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

ENGINE

PERKINS				
Model		4006-23TAG3A		
Engine Power Output	kWm	786		
at rated rpm	HP	1054		
Aspiration and Cooling		Turbocharged		
Total Displacement	Litre	22,921		
No. of Cylinders and Build		6; vertical in-line		
Engine Speed	rpm	1500		
Bore and Stroke	mmxmm	160×190		
Compression Ratio		13.6:1		
Governor		Electronic		
Fuel Consumption at full load	L/hr	172		
Fuel Tank Capacity	Litre	open: 1100 / canopy:1100		
Oil Capacity	Litre	113.4		
Coolant Capacity	Litre	120		
Radiator Cooling Air	m³/min	870		
Air Intake – Engine	m³/min	73		
Exhaust Gas Flow	m³/min	193		

✓ Heavy duty Perkins diesel engine

✓ Four stroke, water cooled, turbocharged

✓ Direct injection fuel system

✓ Electronic Governor system

- ✓ 12/24 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)	<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 available.)

✓ Self-exciting and self-regulating

 \checkmark Impregnation with tropicalised epoxy varnish

✓ Solid state Automatic Voltage Regulator

✓ Stator winding with 2/3 pitch for improved harmonics

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 7320 features:

- The module is used to monitor a mains supply and starts and stops a standby generating set
- ✓ Micro-processor based design
- ✓ Automatic control of mains and generator contactors
- ✓ Monitors engine performance and AC power output
- ✓ LED alarm indication
- ✓ Front panel configuration of timers and alarm trip points
- ✓ Easy push button control STOP/RESET - MANUAL –TEST- AUTO – MUTE ALARM – 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)
- ✓ Generator kVA, kWh
- ✓ Generator kW as % of rated kW setting
- ✓ Generator Cos (σ)

2. Power Outlet Terminal Board Mounted on the Genset Base Frame

OPTIONAL EQUIPMENTS

Diesel Engine

✓ Oil heater

Alternator

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

Panel

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



DSE 7320

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
- ✓ kW overload
- ✓ Unbalanced load
- ✓ Independent earth fault trip

d) LED indications

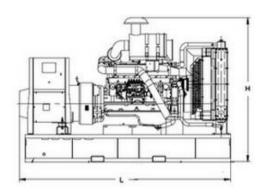
Four configurable LED's like:

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

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

CHASSIS

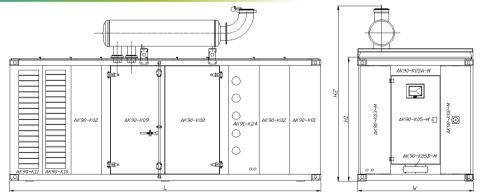


- ✓ The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- \checkmark Anti-vibration pads are fixed between the engine/ alternator feet and the base frame
- ✓ Base frame design incorporates an integral fuel tank (Up to 750 kVA)
 ✓ The generating set can be lifted or carefully pushed / pulled by the base frame
- Dial type fuel gauge and drain plug on the fuel tank \checkmark
- ✓ Forklift pockets within base frame (up to 500kVA)

DIMENSIONS

OPEN TYPE						
DIMENSIONS (LxWxH)	mm	4050x2000x2295				
DRY WEIGHT	kg	5400				
SOUN	D ATTENU	ATED TYPE				
SOUN DIMENSIONS (LxWxH)	D ATTENU	ATED TYPE 5920x2200x3240				

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

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