APD625P-6







625kVA / 500 kW POWERED by PERKINS

DIESEL GENERATING SET 480/277V, 440/254V, 380/220V, 220/127V- 60 Hz

MODEL			APD625P-6
Power Pf. 0.8	Standby	kVA	625
		kW	500
	Prime	kVA	568.75
		kW	455

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		2506C-E15TAG3				
Engine Power Output	kWm	568				
at rated rpm	HP	761.4				
Aspiration and Cooling		Turbocharged & air -to -air charge cooled				
Total Displacement	Litre	15.2				
No. of Cylinders and Build		6-inline				
Engine Speed	rpm	1800				
Bore and Stroke	mmxmm	137x171				
Compression Ratio		16:1				
Governor		ECM				
Fuel Consumption at full load	L/hr	121				
Fuel Tank Capacity	Litre	Open: 870/Canopy: 893				
Oil Capacity	Litre	60				
Coolant Capacity	Litre	58				
Radiator Cooling Air	m³/min	866				
Air Intake – Engine	m³/min	42				
Exhaust Gas Flow	m³/min	112				

- √ Heavy duty Perkins diesel engine
- ✓ Direct injection fuel system
- ✓ ECM 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
- ✓ Four stroke, water cooled, turbocharged &air to air charge cooled ✓ 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

- ✓ 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)

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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

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

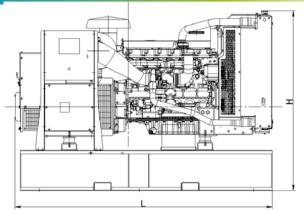
- ✓ Charge ammeter
- ✓ Transfer Switch 3 Pole
- √ Transfer Switch 4 Pole
- ✓ Earth Fault ,single set

Accessories

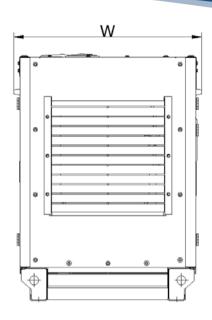
- ✓ Bulk fuel tank
- ✓ Automatic filling system
- √ Fuel-water separator filter
- √ Low fuel level alarm
- √ Residential silencer
- ✓ Enclosure or sound proof canopy
- ✓ Trailer
- ✓ Manual oil drain pump
- ✓ Tool kit for maintenance



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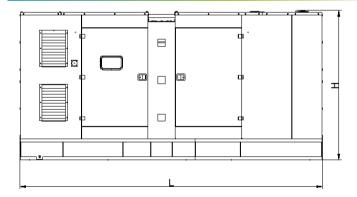
- √ The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- ✓ Anti-vibration pads are fixed between the engine/ alternator feet and the base frame
- ✓ Base frame design incorporates an integral fuel tank (Up to 750 kVA)
- ✓ The generating set can be lifted or carefully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



DIMENSIONS

OPEN TYPE							
DIMENSIONS (LxWxH)		m	3430x1420x2187				
DRY WEIGHT		g	4030				
SOUND ATTENUATED TYPE							
DIMENSIONS (LxWxH)	mı	m	5022x1652x2475				
DRY WEIGHT	kį	g	5025				

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