

APD385PE

385 kVA / 308 kW POWERED by PERKINS

88 Perkins





DIESEL GENERATING SET 400/230 V - 50 Hz

MODEL			APD385PE
Power Pf. 0.8	Standby	kVA 🛛	385
		l kW	308
	Prime	kVA 🛛	350
		kW	280

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 programme which includes full load testing and checking and providing 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

88 Perkins

PERKINS					
Model	2206C-E13TAG2				
Engine Power Output	l kWm	· 349			
at rated rpm	HP	468.009			
Aspiration and Cooling	Turbocharged&Intercooled				
Total Displacement	Litre	12.5			
No. of Cylinders and Build		6 - Inline			
Engine Speed	rpm	1500			
Bore and Stroke	mmxmm	130x157			
Compression Ratio	16.3:1				
Governor	ECM				
Fuel Consumption at full load	L/hr	· 75 ·			
Fuel Tank Capacity	Litre	525			
Oil Capacity	Litre	r 75			
Coolant Capacity	Litre	51.4			
Radiator Cooling Air	m³/min	438			
Air Intake – Engine	m³/min	32			
Exhaust Gas Flow	m³/min	· 79			

✓ Heavy duty Perkins diesel engine

- ✓ Four stroke, water cooled, turbocharged&Intercooled
- ✓ 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

- ✓ 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 Moveform Total Harmonia 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)	l<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

- ation with tropicalised epoxy varnish
- ✓ Solid state Automatic Voltage Regulator



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

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- ✓ 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 conguration 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)

OPTIONAL EQUIPMENTS

Dlesel Englne

✓ Oil heater

Altemator

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

Panel

- ✓ Charge ammeter
- ✓ Transfer Switch 3Pole
- ✓ 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:

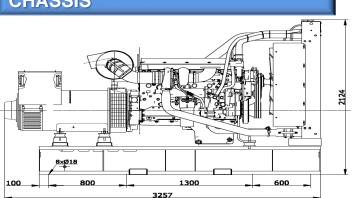
- ✓ Mains available
- ✓ Generator available
- ✓ Mains on load
- ✓ Generator on load

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

Accessories

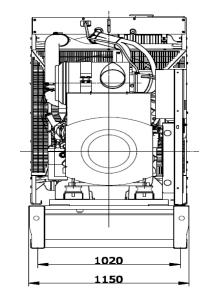
- ✓ Bulk fuel tank
- ✓ Automatic filling system
- ✓ Fuel-water separator filter
- ✓ Low fuel level alarm
- ✓ Residential silencer
- ✓ Enclosure or sound proof canopy
- ✓ Trailer
- ✓ Manual oil drain pump
- ✓ Tool kit for maintenance

CHASSIS



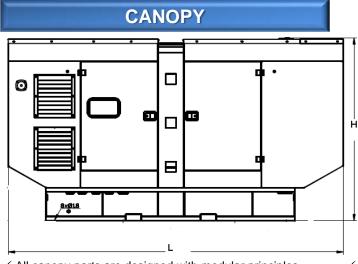
 $\checkmark\,$ The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame

- ✓ 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)
- $\checkmark\,$ 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)



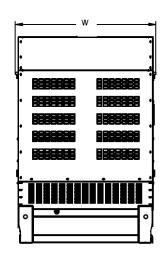
DIMENSIONS





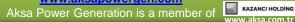
✓ All canopy parts are designed with modular principles

- ✓ 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

Aksa Power Generation Evren Mah.Gulbahar Caddesi 1.Sokak Gunesli-Istanbul-TURKEY Tel:+90 212 478 66 66 Fax:+90 212 657 55 16 E-mail: aksa@aksapowergen.com www.aksapowergen.com



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