POWER YOUR FUTURE

APD275P



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88 Perkins

275kVA / 220 kW POWERED by PERKINS

DIESEL GENERATING SET 400/230 V - 50 Hz

	MODEL		APD275P
Power Pf. 0.8	Standby	kVA	275
		kW	220
	Prime	kVA	250
		kW	200

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.

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ENGINE

PERKINS					
	1206A-E70TTAG3				
kWm	248.6				
HP	333.4				
	Series turbocharged aftercooled				
Litre	7.01				
	6 ; In-line				
rpm	1500				
mmxmm	105×135				
	15.8:1				
	Electronic				
L/hr	56.9				
Litre	1100				
Litre	16				
Litre	25				
m³/min	265.2				
m³/min	15.7				
m³/min	33.66				
dBA	TBD				
dBA	TBD				
	kWm HP Litre rpm mmxmm Litre Litre Litre Litre Immxmm Litre Immxmm Immxmm				

✓ Heavy duty Perkins diesel engine

✓ Four stroke, water cooled, turbocharged

✓ 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 \checkmark

Starter battery (with lead acid) including Rack and Cables \checkmark

Flexible fuel connection hoses and manual oil sump drain valve \checkmark

- Industrial capacity exhaust silencer and steel bellows \checkmark
- ✓ 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 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 voltsEngine 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

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

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



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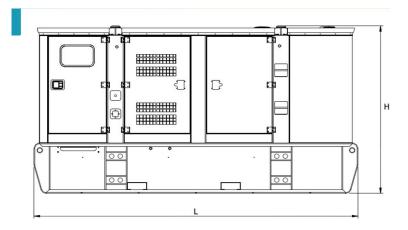
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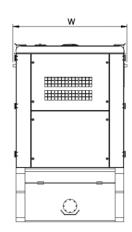
- \checkmark The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- $\checkmark\,$ Anti-vibration pads are fixed between the engine/ alternator feet and the base frame
- ✓ Base frame design incorporates an integral fuel tank (Up to 750 kVA)
- ✓ The generating set can be lifted or carefully pushed / pulled by the base frame
- $\checkmark\,$ 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	N/A				
DRY WEIGHT	kg	N/A				
SOUND ATTENUATED TYPE						

DIMENSIONS (LxWxH)	mm	3800x1363x2273
DRY WEIGHT	kg	3800





- ✓ 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