POWER YOUR FUTURE

APD66C-RP

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POWER YOUR FUTURE

66 kVA / 52.8 kW POWERED by CUMMINS

DIESEL GENERATING SET 415/240 V - 50 Hz - 3 Phase

	MODEL		APD66C-RP
Power Pf. 0.8	Standby	kVA	66
		kW	52.8
	Prime	kVA	60
		kW	48

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

CUMMINS						
Model		4BTA3.9G2				
Engine Power Output	kWm	55				
at rated rpm	HP	74				
Aspiration and Cooling		Turbocharged & Aftercooled				
Total Displacement	Litre	3.9				
No. of Cylinders and Build		4 - Inline				
Engine Speed	rpm	1500				
Bore and Stroke	mmxmm	102x120				
Compression Ratio		17.3:1				
Governor		Electronic				
Fuel Consumption at full load	L/hr	12.9				
Fuel Tank Capacity	Litre	Canopy:330				
Oil Capacity	Litre	10.9				
Coolant Capacity	Litre	19.9				
Radiator Cooling Air	m³/min	120				
Air Intake – Engine	m³/min	3.12				
Exhaust Gas Flow	m³/min	8.04				
Sound Level(1M)	dBA	76				
Sound Level(7M)	dBA	63				

✓ Heavy duty Cummins diesel engine

✓ Four stroke, water cooled, turbocharged & aftercooled

✓ 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

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

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

✓ 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 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:

Generator kVA

Generator kW

Generator Cos (o)

1. Auto Mains Failure Control Panel

- Panel equipments:
- ✓ Control with AMF module
- ✓ Static battery charger
- ✓ Emergency stop push button

a) Generating set control module DSE6120 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 ~
- ✓ 4 configurable analogue/digital inputs, 8 configurable digital inputs
- ✓ 6 configurable DC outputs
- ✓ Easy push button control
- STOP/RESET MANUAL AUTO TEST START

b) Metering via LCD 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)



DSE 6120

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

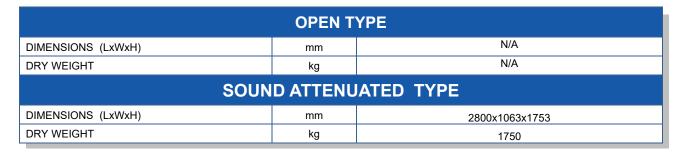
- ✓ Bulk fuel tank
- ✓ Automatic filling system
- ✓ Fuel-water separator filter
- ✓ Low fuel level alarm
- ✓ Residential silencer
- ✓ Enclosure or sound proof canopy
- ✓ Trailer
- ✓ Manual oil drain pump
- ✓ Tool kit for maintenance

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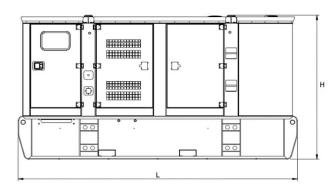
CHASSIS

- \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)
- \checkmark 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)

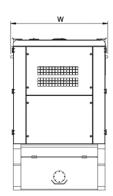
DIMENSIONS



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