APD250A





Sa POWER

250 kVA / 200 kW POWERED by AKSA

DIESEL GENERATING SET 400/230 V - 50 Hz

	MODEL		APD250A
	Standby	kVA	250
Power	Stanuby	kW	200
Pf. 0.8	Drive e	kVA	230
	Prime	kW	184

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

	AKS	A		
Model		A6CRX98TI		
Engine Power Output	kWm	220		
at rated rpm	HP	295		
Aspiration and Cooling		Turbocharged with intercooler		
Total Displacement	Litre	9.726		
No. of Cylinders and Build		6 – Inline		
Engine Speed	rpm	1500		
Bore and Stroke	mmxmm	126X130		
Compression Ratio		16.5:1		
Governor		Electronic		
Fuel Consumption at full load	L/hr	51.9		
Fuel Tank Capacity	Litre	Open: 526/Canopy: 526		
Oil Capacity	Litre	24		
Coolant Capacity	Litre	65		
Radiator Cooling Air	m³/min	265		
Air Intake – Engine	m³/min	14.55		
Exhaust Gas Flow	m³/min	39.99		

✓ Heavy duty Aksa 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
- $\checkmark\,$ 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 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

✓ Generator Cos (σ)

a) Generating set control module DSE 6020 features:

- ✓ The module is used to monitor main supply and
- starts and stops of a standby generating set
- ✓ Micro-processor based design
- $\checkmark\,$ Automatic control of main and generator contactors
- $\checkmark\,$ Monitors engine performance and AC power output LED alarm indication
- ✓ Front panel configuration of timers and alarm trip points
- ✓ CAN and magnetic pick-up versions(specify on ordering)
- ✓ 4 digital inputs/3 analogue inputs
- $\checkmark\,$ 6 outputs(4 configurable on Magnetic Pick-up, 6 configurable on CANbus version)
- ✓ Easy push button control STOP/RESET - MANUAL - AUTO - TEST – 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 Generator kW
- Generator Cos (σ)

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

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

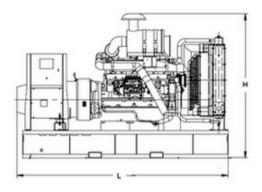
- ✓ Mains available
- ✓ Generator available
- ✓ Mains on load
- ✓ Generator on load



DSE 6020



CHASSIS

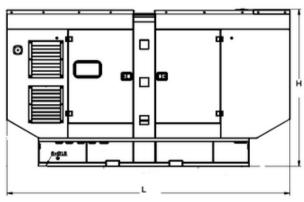


- \checkmark The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- ✓ Anti-vibration pads are fixed between the engine/ alternator feet and the base frame
- ✓ Base frame design incorporates an integral fuel tank (Up to 750 kVA)
 ✓ The generating set can be lifted or carefully 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 T	YPE
DIMENSIONS (LxWxH)	mm	2900x1400x2045
DRY WEIGHT	kg	2645
SOUN	D ATTENU	ATED TYPE
SOUN DIMENSIONS (LxWxH)	D ATTENU	ATED TYPE 3918x1463x2163

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

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- 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 Aksa Power Generation is a member of a kazanci holding www.aksa.com.tr