

APD 250 A

Engine : Akxa
 Alternator : Akxa
 Control System : P 72 Control System



ISO8528

This generator set has been designed to meet ISO 8528 regulation.



This generator set is available with CE certification.

2000/14/EC

Enclosed product is tested EU noise legislation 2000/14/EC

3 Phase Ratings, 50 Hz, PF 0,8

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kW	kVA	kW	Amp
400/230	250,00	200,00	230,00	184,00	331,00

Standby Rating (ESP): Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528. Overload is not allowed.

Prime Rating (PRP): Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

STANDARD SPECIFICATIONS

- Heavy duty, water cooled diesel engine
- Radiator with mechanical fan
- Protective grille for fan and rotating parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine jacket cooling heater
- Steel base frame and anti-vibration isolators
- Spare Fuel Tank
- Flexible fuel connection hoses
- Two bearing, class H alternator
- Industrial exhaust silencer and steel belows supplied separately
- Static battery charger
- Manual for use and installation

OPTIONAL EQUIPMENTS

ENGINE

- Fuel-Water Separator Filter
- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Main line circuit breaker

CONTROL SYSTEM

- Charge Ammeter

OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Low and high fuel level alarm
- Enclosure: weater protective or sound attenuated
- Trailer
- Tool kit for maintenance
- Main Fuel Tank

TRANSFER SWITCH

- Four Pole Contactor

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1 DIESEL ENGINE SPECIFICATIONS

Manufacturer		Aksa
Model		A6CRX98TA
No. of Cylinders and Build		6 Cylinder, In Line
Aspiration and Cooling		Turbo Charged and After Cooled
Maximum Standby Power		1500 rpm
		220 kW[295HP]
Total Displacement	L	9,72
Bore and Stroke	mm	126 x 130
Compression Ratio		16,5:1
Rated Speed (rpm)	rpm	1500
Governor		Electronic
Oil Capacity	L	24,00
Coolant Capacity	L	54,00
Intake Air Flow	m ³ /min.	14,55
Radiator Cooling Air	m ³ /min.	265
Exhaust Gas Flow	m ³ /min.	39,99
Exhaust Gas Temperatures	° C	580
Start System		24 V d.c.
Fuel Consumption	Load	%100
	L/h	52,00

2 ALTERNATOR SPECIFICATIONS

Make		Aksa
Frequency	Hz	50
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Insulation Class		H
Stator		2 / 3 steps
Rotor		Single Bearing System, Flexible Disc
Excitation System		Electronic (AVR)

3 DIEMENSIONS AND WEIGHT

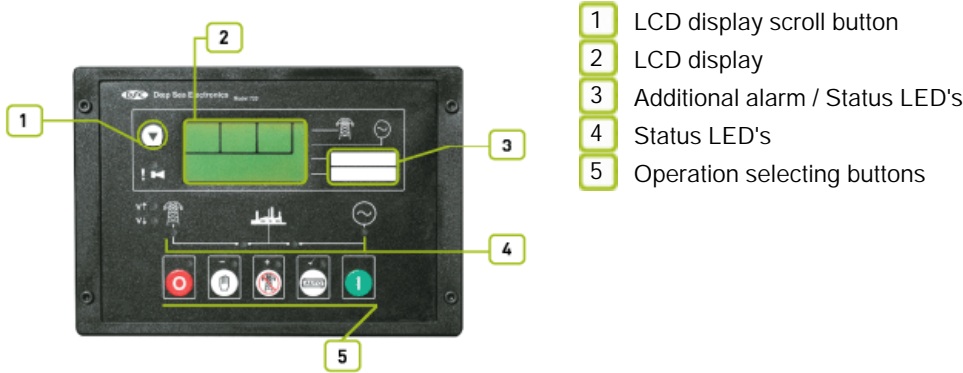
Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 250 A	2645	3000	1220	2050	525
Sound Attenuated Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 250 A	3380	3900	1470	2170	

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1 P 72 Control System - Control System



2 Devices

DSE, model 720 Auto Mains Failure control module
 Static battery charger 5A, 220/240 volt
 Emergency stop push button and fuses for control circuits

3 Construction and Finish

Components installed in sheet steel enclosure. Phosphate chemical, pre-coating of steel provides corrosion resistant surface
 Polyester composite powder topcoat forms high gloss and extremely durable finish
 Lockable hinged panel door provides for easy component access

4 Installation

Control panel is mounted generating set baseframe on robust steel stand.
 Located at side of generating set with properly panel visibility.

5 Generating Set Control Unit

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 H\Y`8G9'+&\$`Wbfc`a cXi`Y`g`U`g`U`b`X`U`F`X`U`X`h`c`b`h`c`i`f`[`Y`b`Y`f`U`h`c`f`g`Y`h`i`d`h`c`&`\$`_`J`5`U`b`X`i`h`U`j`Y`V`Y`Y`b`X`Y`g`[`b`Y`X`h`c`g`U`f`h`U`b`X`g`h`c`d`X`Y`g`Y`U`b`X`[`U`g`[`Y`b`Y`f`U`h`b`[`g`Y`h`g`H\Y`8G9'+&\$`a`c`X`i`Y`U`g`V`Y`Y`b`X`Y`g`[`b`Y`X`h`c`a`c`b`[`h`c`f`[`Y`b`Y`f`U`h`c`f`Z`Y`e`i`Y`b`V`h`z`j`c`h`z`W`f`Y`b`h`z`Y`b`[`j`b`Y`c`]`d`f`Y`g`g`i`f`Y`z`V`c`U`b`h`i`Y`a`d`Y`f`U`h`i`f`Y`i`f`i`b`b`[`\`c`i`f`g`U`b`X`V`U`h`Y`f`m`j`c`h`g`"A`c`X`i`Y`a`c`b`[`h`c`f`g`h`Y`a`U`j`b`g`g`i`d`d`m`U`b`X`g`k`]`h`W`c`j`Y`f`h`c`h`Y`[`Y`b`Y`f`U`h`c`f`k`Y`b`h`Y`a`U`j`b`g`d`c`k`Y`f`Z`j`g`"
 H\Y`8G9'+&\$`U`g`c`]`b`X`]`W`h`Y`g`c`d`Y`f`U`h`c`b`U`g`h`U`h`g`U`b`X`Z`j`i`h`V`c`b`X`]`h`c`b`g`z`U`i`h`c`a`U`h`W`m`i`g`i`h`h`b`[`X`c`k`b`h`Y`[`Y`b`Y`f`U`h`b`[`g`Y`h`U`b`X`]`b`X`]`W`h`b`[`Z`j`i`h`g`V`m`i`a`Y`U`b`g`c`Z`]`h`g`@`7`8`X`]`g`d`U`m`c`b`h`Y`Z`c`b`h`d`U`b`Y`"

Standard Specifications
 Microprocessor controlled
 LCD display makes information easy to read
 Black-lit character/icon LCD display
 Transfer between mains (utility) and generator power
 On-site module configuration and remote configuration (max 100 meters) using PC software
 User-friendly set-up and button layout
 Front panel programming
 Remote start
 Multiple engine parameters are monitored simultaneously
 Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to scroll through the modules' metering displays

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Instruments

- ENGINE
- Engine speed
- Oil pressure
- Coolant temperature
- Run time
- Battery volts
- GENERATOR
- Voltage (L-N)
- Current (L1-L2-L3)
- Frequency
- MAINS
- Voltage (L-L, L-N)

Protection Circuits

- WARNING
- Battery charge failure
- Low battery voltage
- SHUT DOWNS
- Fail to start
- Emergency stop
- Low oil pressure
- High engine temperature
- Over /Under speed
- Under/over generator frequency
- Failed to reach loading voltage
- Failed to reach loading frequency
- ELECTRICAL TRIP
- Generator over current

Options

- High oil temperature shut down
- Low fuel level alarm
- High fuel level alarm
- Low coolant level

Standards

- Electrical Safety / EMC compatibility
- BS EN 60950 Electrical business equipment
- BS EN 61000-6-2 EMC immunity standard
- BS EN 61000-6-4 EMC emission standard for the industrial environment

Static Battery Charger

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APD 250 A - Canopy

Introduction

Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet even the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies (8 - 275kVA) fit directly to the open generator set to provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

Standard Specifications

Compact footprint, low profile design.

Enclosure, generator set, exhaust system and base-tank are pre-assembled, pre-integrated and shipped as one package

Body made from steel components treated with polyester powder coating

Fire retardant foam insulation

Easy access to all service points

Exhaust system inside canopy

Large doors on each side

Control panel viewing window in a lockable access door

Emergency stop push button mounted on enclosure exterior

Cooling fan and battery charging alternator fully guarded

Fuel fill and battery can only be reached via lockable access doors.

Lifting points on the top of canopy and base frame

Customer options available to meet your applications needs.

Width	mm.	1470
Length	mm.	3900
Height	mm.	2170