

APD 275 C

Engine : Cummins
 Alternator : Aksa
 Control System : P 732 control system



ISO8528

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

SZUTEST

This generator set is manufactured in facilities certified to ISO 9001.



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	275,00	220,00	250,00	200,00	360,00

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

Aksa power generation system, providing optimum performance, reliability, and versatility for stationary standby, prime power, and continuous duty applications.

All generator sets are prototype tested, factory build, and production tested.

- 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

- Manual oil drain pump
- Residential silencer
- Enclosure: weather protective or sound attenuated
- Trailer
- Tool kit for maintenance
- Main Fuel Tank

TRANSFER SWITCH

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- Four Pole Contactor

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● DIESEL ENGINE SPECIFICATIONS

Manufacturer		Cummins		
Model		6 LTAA8,9-G2		
No. of Cylinders and Build		6 Cylinder, In Line		
Aspiration and Cooling		Turbo Charged and After Cooled		
Maximum Standby Power		1500 rpm		
		243 kW[325HP]		
Total Displacement	L	8,90		
Bore and Stroke	mm	114 X 144		
Compression Ratio		16,6:1		
Rated Speed (rpm)	rpm	1500		
Governor		Electronic		
Oil Capacity	L	27,60		
Coolant Capacity	L	41,10		
Intake Air Flow	m ³ /min.	20,00		
Radiator Cooling Air	m ³ /min.	475		
Exhaust Gas Flow	m ³ /min.	38,00		
Exhaust Gas Temperatures	° C	470		
Start System		24 V d.c.		
Fuel Consumption	Load	%100	%75	%50
	L/h	53,00	39,00	27,00

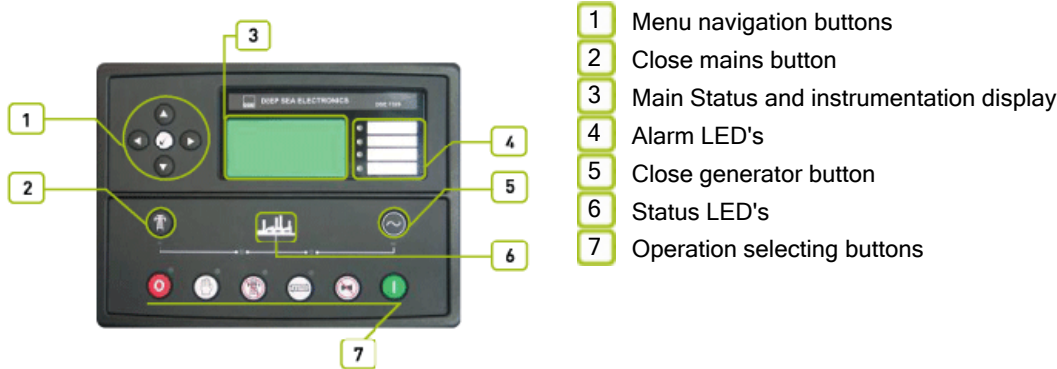
● ALTERNATOR SPECIFICATIONS

Make		Aksa
Model		AK4200
Frequency	Hz	50
Power	kVA	250
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Current	A	360
Insulation Class		H
Rotor		Single Bearing System, Flexible Disc
Excitation System		Electronic (AVR)

● DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 275 C	2050	2600	1250	1700	470
Sound Attenuated Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 275 C	2600	3650	1320	2040	

1 P 732 control system - Control System



2 Devices

DSE, model 7320 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 or power module.
Located at side of generating set with properly panel visibility.

5 Generating Set Control Unit

The DSE 7320 control module is a standard addition to our generator sets from 250kVA upwards and it has been designed to start and stop diesel and gas generating sets that include electronic and non-electronic engines. The DSE 7320 includes the additional capability of being able to monitor a mains (utility) supply and is therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch. The DSE 7320 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LCD display on the front panel.

Standard Specifications

Microprocessor controlled
132 x 64 pixel LCD display makes information easy to read
Front panel programming and also via PC software
Soft touch membrane keypad and five key menu navigation
Remote communications via RS232, RS485 and ethernet and SMS messaging
Event logging (50) showing date and time
Multiple date and time engine exercise mode and maintenance scheduler

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• Instruments

ENGINE
 Engine speed
 Oil pressure
 Coolant temperature
 Run time
 Battery volts
 Engine maintenance due
 GENERATOR
 Voltage (L-L, L-N)
 Current (L1-L2-L3)
 Frequency
 Earth current
 kW
 Pf
 kVAh
 kWh, kVAh, kVArh
 Phase sequence
 MAINS
 Voltage (L-L, L-N)
 Frequency

• Protection Circuits

WARNING
 Charge failure
 Battery under voltage
 Fail to stop
 Low fuel level (opt.)
 kW over load
 Negative phase sequence
 PRE-ALARMS
 Low oil pressure
 High engine temperature
 Low engine temperature
 Over /Under speed
 Under/over generator
 frequency
 Under/over generator
 voltage
 ECU warning
 SHUT DOWNS
 Fail to start
 Emergency stop
 Low oil pressure
 High engine temperature
 Low coolant level
 Over /Under speed
 Under/over generator
 frequency
 Under/over generator voltage
 Oil pressure sensor open
 Phase rotation
 ELECTRICAL TRIP
 Earth fault
 kW over load
 Generator over current
 Negative phase sequence

• Options

High oil temperature shut down
 Low fuel level shut down
 Low fuel level alarm
 High fuel level alarm
 EXPANSION MODULES
 Editional LED module (2548)
 Expansion relay module (2157)
 Expansion input module (2130)

• 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

• Static Battery Charger

Battery charger is manufactured with switching-mode and SMD technology and it has high efficiency. Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 24 volt DC. Input 198 - 260 volt AC. 2405 has fully output short circuit protection and it can be used as a current source. 2405 charger has high efficiency, long life, low failure rate, light weight and low heat radiated in accordance with linear alternatives. The charger is fitted with a protection diode across the output. Charge fail output is available. Connect charge fail relay coil between positive output and CF output.

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APD 275 C - 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.	1320
Lenght	mm.	3650
Height	mm.	2040