

# APD 275 C

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



## SZUTEST

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

## 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.

### 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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## ● 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 <sup>3</sup> /min.	20,00		
Radiator Cooling Air	m <sup>3</sup> /min.	475		
Exhaust Gas Flow	m <sup>3</sup> /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

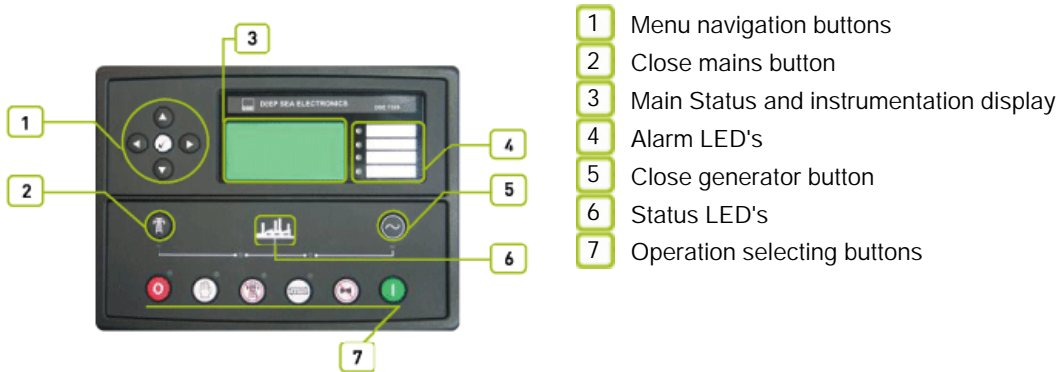
Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 275 C	2050	2600	1250	1700	470
Sound Attenuated Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 275 C	2600	3650	1320	2040	

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## 1 P 732 control system - Control System



- 1 Menu navigation buttons
- 2 Close mains button
- 3 Main Status and instrumentation display
- 4 Alarm LED's
- 5 Close generator button
- 6 Status LED's
- 7 Operation selecting buttons

### 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

HAY'8G9+' &\$ V&bfca cXi 'Y' ]g'U'ghUbxUfX' UXX]hcb'hc'ci' f'[ YbYfU'rc'f'gYhg'Zca' &)' \$\_J' 5' i' dk' UfXg'UbX'ih\Uj' Y' VYYb  
 XYg] bYX'hc' ghU'hiUbX' g'rc'd'X]YgY' UbX[ Ug[ YbYfU]b[ 'gYhg' h'Uh]bWl' XY' Y'YV'rcb]WUbX' bcb' Y'YV'rcb]WYb[ ]bYg'' HAY'  
 8G9+' &\$ ]bWl' XYg' h'Y' UXX]hcbU' W'dUV] ]mcZVY]b[ 'UV'Y' hc' a' cb]rc'f' U' a' U]bg' fi' h] ]mt' gi' dd' miUbX' ]g' h'Y' fY' Z' fY'  
 gi' ]hUV'Y' Z' f' V&bfca' ]b[ 'U' ghU'bxVm[ YbYfU]b[ 'gYh]b' V&b' b' V'cb' k' ]h' Ub' Ui' hca' U]W'f'Ubg'Z'f' gk' ]h' HAY' 8G9+' &\$' U' gc'  
 ]bX]W]hY' g' cdY' fU]cbU' ghU' g' UbX' Z]i' h' V&bX]hcbg'Z'Ui' hca' U]W' mig' \i' h]b[ 'X' ck' b' h' Y' [ YbYfU]b[ 'gYh'UbX' ]bX]W]h]b[  
 Z]i' hg' V' ma' Y' Ubg' cZ]hg' @7' 8' X]gd' U' mcb' h' Y' Z'cb' h' d' UbY''

#### 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
- kVAr
- 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)
- Expension 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

6UHfVfUf[ Yf]g'a Ubi ZUM fYX'k Jh'gk JhX]b[ !a cXY'UbX'GA 8 fVWbc'c[ mUbX'ih\Ug\][ \ YZZV]bVWf  
 6UHfVfUf[ Yf'a cXY'gfci hdi hJ !=VUfUUVf]gh]W]g] YfmVcgy'hc'gei UfY'UbX'ci hdi h]g) Ua dYfz&( 'j c'h87"'-bdi h% , !  
 &\* \$j c'h57"'&(\$) \Ug z `mci hdi hg\chVfVW]hdfchVW]cb UbX'ihVWb'VY i gYX'Ug'U'W ffYbhgci fVW"  
 &(\$) VUf[ Yf\Ug\][ \ YZZV]bVWf]cb[ "]ZY'ck'Z]i fY'fUfYz'[ \hk Y][ \hUbX'ck \YUhfUX]UfYX']b UVMcfXUbW'k Jh'"]bYUf  
 U'fYfbUf]j Yg"  
 H\Y VUf[ Yf]g]Z]hYX'k Jh' U'dfchVW]cb X]cXY'UMfcgg'hY'ci hdi H'7'Uf[ Y'Z]i'ci hdi h]g'Uj U]UV'Y"'7 cbbYVhVUf[ Y'Z]i'fY'Um  
 Vc] VYfK YYb'dcg]h]j Y'ci hdi hUbX'7: 'ci hdi H'

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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
Length	mm.	3650
Height	mm.	2040