

APD 200 C

Engine : Cummins
 Alternator : Aksa
 Control System : P 72 Control System



3 Phase Ratings, 50 Hz, PF 0,8

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kW	kVA	kW	Amp
400/230	200,00	160,00	180,00	144,00	259,00

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

- 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
- Base frame design incorporates an integral fuel tank and anti-vibration isolators
- Flexible fuel connection hoses
- Single bearing, class H alternator
- Industrial exhaust silencer and steel belows supplied separately
- Static battery charger
- Manual for use and installation.

OPTIONAL EQUIPMENTS

ENGINE

- Remote Radiator Cooling
- Fuel-Water Separator Filter
- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Main line circuit breaker

CONTROL SYSTEM

- Earth fault, single set
- Charge Ammeter

OTHER ACCESSORIES

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

TRANSFER SWITCH

- Four Pole Contactor

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➤ DIESEL ENGINE SPECIFICATIONS

Manufacturer		Cummins
Model		6 CTA 8,3-G2
No. of Cylinders and Build		6 Cylinder, In Line
Aspiration and Cooling		Turbo Charged and After Cooled
Maximum Standby Power		1500 rpm
		180 kW[241HP]
Total Displacement	L	8,30
Bore and Stroke	mm	114 X 135
Compression Ratio		17:1
Rated Speed (rpm)	rpm	1500
Governor		Electronic
Oil Capacity	L	24,00
Coolant Capacity	L	36,00
Intake Air Flow	m ³ /min.	12,50
Radiator Cooling Air	m ³ /min.	186
Exhaust Gas Flow	m ³ /min.	30,00
Start System		24 V d.c.
Fuel Consumption	Load	%100
	L/h	40,00

➤ ALTERNATOR SPECIFICATIONS

Make		Aksa
Model		AK4150
Frequency	Hz	50
Power	kVA	188
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Current	A	270
Insulation Class		H
Rotor		Single Bearing System, Flexible Disc
Excitation System		Electronic (AVR)

➤ DIEMENSIONS AND WEIGHT

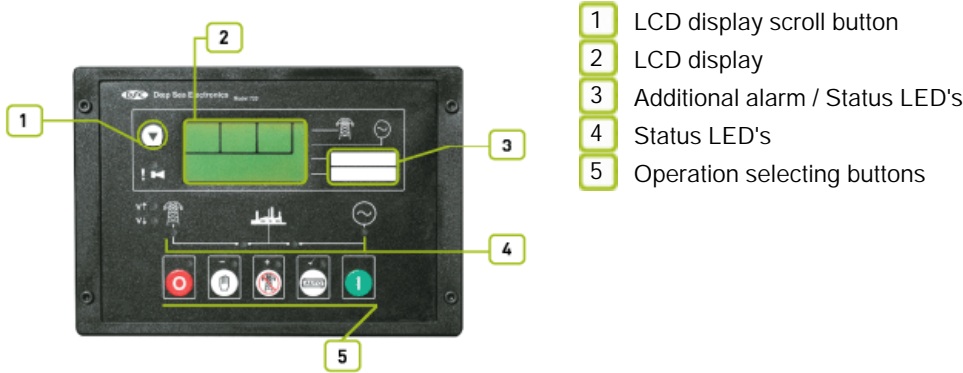
Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 200 C	1860	2300	1100	1700	320
Sound Attenuated Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 150 A.	2280	3270	1170	1870	320

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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

8G9'+&\$

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`w`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`j`b`X`W`h`Y`g`c`d`Y`f`U`h`c`b`U`g`h`i`g`U`b`X`Z`j`h`V`c`b`X`]`h`c`b`g`z`U`i`h`c`a`U`h`W`m`i`g`i`h`j`b`[`X`c`k`b`h`Y`[`Y`b`Y`f`U`h`b`[`g`Y`h`U`b`X`j`b`X`W`h`j`b`[`Z`j`h`g`V`m`i`a`Y`U`b`g`c`Z`]`h`g`@`7`8`X`j`g`d`U`m`i`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

6UHfVfmVUf[Yf]g'a Ubi ZUM fYX'k Jh'gk JhV]b[!a cXY'UbX'GA 8 'hVWbc'c[mUbX'ih\Ug\][\ YZV]bVh
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APD 150 A. - Canopy

Introduction

Sound-attenuated and Weather-protective Enclosures 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 (10- 300kVA) 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 fuel 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.
- Aksa makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been approved by the notified body Szutest

Width	mm.	1170
Length	mm.	3270
Height	mm.	1870