

APD 145 C

Engine : Cummins
Alternator : Aksa
Control System : P 602



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 according to 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	145,00	116,00	132,00	105,00	190,00

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

- Fuel-Water Separator Filter
- Oil heater

OTHER ACCESSORIES

- Enclosure: weather protective or sound attenuated
- Trailer
- Tool kit for maintenance
- Main Fuel Tank

ALTERNATOR

- Anti-Condensation Heater
- Main line circuit breaker

CONTROL SYSTEM

- Charge Ammeter

TRANSFER SWITCH

- Four Pole Contactor

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1 DIESEL ENGINE SPECIFICATIONS

Manufacturer		Cummins
Model		6 BTAA 5,9-G2
No. of Cylinders and Build		6 Cylinder, In Line
Aspiration and Cooling		Turbo Charged and After Cooled
Maximum Standby Power		1500 rpm
		132 kW[177HP]
Total Displacement	L	5,90
Bore and Stroke	mm	102 X 120
Compression Ratio		17,5:1
Rated Speed (rpm)	rpm	1500
Governor		Electronic
Oil Capacity	L	16,50
Coolant Capacity	L	27,00
Intake Air Flow	m ³ /min.	9,00
Radiator Cooling Air	m ³ /min.	148
Exhaust Gas Flow	m ³ /min.	25,00
Start System		24 V d.c.
Fuel Consumption	Load	%100
	L/h	30,00

2 ALTERNATOR SPECIFICATIONS

Make		Aksa
Model		AK4110
Frequency	Hz	50
Power	kVA	138
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Current	A	198
Insulation Class		H
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 145 C	1340	2150	1000	1500	195
Sound Attenuated Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 145 C	1820	3380	1070	1770	195

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1 P 602 - Control System



- 1 A U]b'gHh g'X]gd'Um'
- 2 8]gd'Um]gVc''Vi Hrcb''
- 3 DU[Yf]bZcfa U]jcbE'Vi Hrcb''
- 4 7 ca a cb U'Ufa]bX]W]rcf''
- 5 GHh g'@98fj''
- 6 C dYfU]jcb'gY'YV]b['Vi Hrcbg''

2 Devices

8G9ža cXY''\$\$'5i hc'A U]bg:] U]i fy Vēbfc''a cXi 'Y"
 6UHYfmVUf[Yf]bdi h%, !&*('j c'hžci rdi h''&+ž'J) '5'f&('J E'cf%' ž 'J c'h) 5'f&J E
 9a Yf[YbVhrcd'di g\ 'Vi Hrcb'UbX ž gYg Z'fVēbfc''V]fV]rg''

3 Construction and Finish

7 ca dcbYbrj]b]g'U'YX]b'g\YYgh'Y'YbWc]i fy''D\cgd\UHY'WYa]W'ždfY!VēU]b['cZghY' d'fcj]XYg Vēffcg]cb
 fYg]g]Ubhgi fZ]W''Dc'mYgYfVēa d'cg]Y' d'ck XYf'rcdVēU]hZcfa g\] ['cgg'UbX'Yi H'Ya Y'mXi fUY'Z]b]g\''@cV]UV'
 UbX\]b[YX'dUbY'Xccf'dfcj]XYg YUgmUW]gg'hc''Vēa dcbYbrj''

4 Installation

7 cblfc'dUbY']g'a ci bHY'cb VUgYZUa Y'k]h' ghY'g'U]bX''@W]HY'U]h'Y'f[\hig]XY'cZ]h'Y [YbYfU]rcf'gYh'fK \Yb'mci
 'cc_'U]h'Y'; Yb''GYH'Zca '5'HYfbU]rcfE

5 Generating Set Control Unit

H'Y'8G9''\$\$']g'U'g'U]bXU]f'Vēbfc''a cXi 'Y'Z'f'ci f[YbYfU]rcf'gYh'g'i d'hc'&\$\$_J 5'UbX'ih\Uj'Y'VYYb'XYg][bYX'hc
 g'U]f'U]bX'gh'cd'X]YgY'UbX'[Ug[YbYfU]rcf'gYh'g''H'Y'8G9''\$\$' a cXi 'Y'Ug'VYYb'XYg][bYX'hc'a cb]rcf[YbYfU]rcf
 Z'Yei YbVhžj c'iz'W'fYb'ž'Yb[]bY'c]'d'fYggi fYž'Vēc'Ubh'Y'a d'YfU]h'fY'fi bb]b[\ci fg'UbX'VU]HY'f]m]c']g''A cXi 'Y
 a cb]rcf'g'h'Y'a U]bg'gi dd'm'UbX'gk]W'c] Yf'hc'h'Y' [YbYfU]rcf'k \Yb'h'Y'a U]bg'd'ck Yf'Z]]g''H'Y'8G9''\$\$' U'gc
]bX]W]HY'g'cdYfU]jcbU'gh'U]h'g'UbX'Z]i 'hVēbX]j]cbgž'5i hca U]h'W'm]g\i H]b['X'ck b'h'Y'; Yb''GYh'UbX'[]]b['H'i Y'Z]fghi d
 Z]i 'hVēbX]j]cb'cZ; Yb''GYh'Z]i'fY'H'Y'@78'X]gd'Um]bX]W]HY'g'h'Y'Z]i 'H'

Standard Specifications

A]W'cd'fc'W'ggcf'Vēbfc''YX"
 @78'X]gd'Uma U_Yg]bZcfa U]jcb'YUgm]rc'fYUX"
 (!]bYž*('1'%'&d]]Y'X]gd'Um'

5i hca U]h'W'm]f'U]bgZ'fg'VYh'YYb'a U]bg'fi H]h'hc'UbX' [YbYfU]rcf'd'ck Yf'
 A Ubi U'd'fc[fUa a]b['cb'Z'cbhd'UbY''
 I gYf]Z]YbX'm]gYH'i d'UbX'Vi Hrcb''U]rci H'
 : fcbhd'UbY'd'fc[fUa a]b[''
 FYa c'HY'gh'U]f'f'
 9j Ybh'c[[]b['f]g'g'ck]b['X'U]Y'UbX'h'a Y''
 7 cblfc'g' Gh'cd#F'YgY]h'Z'U]bi U'ž'5i hcž'HYgh'GH'f'f'Vi Hrcbg''5b'U]X]j]cbU'di g\ 'Vi Hrcb'bYi hrc'h'Y'@78'X]gd'Um]g
 i gYX'hc'g'Vc''h'fci [\h'Y'a cXi 'Y'g'f'a Y'f'f]b['X]gd'Um]g''

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Instruments

9B: #9
 9b[]bY'gdYYX"
 C]'dfYggi fY"
 7cc'UbhY'a dYfUhi fY"
 F i b' hja Y"
 6UHYfmj c'rg"
 7cbZ[i fUV'Y hja]b["
 ; 9B9F 5HCF
 J c' hU[Y f@ @B' "
 7i ffYbhf@&! @ E"
 : fYei YbVW"
 A 5-BG
 J c' hU[Y f@ @B' "
 : fYei YbVW"
 A U]bg'fYUXn"
 A U]bg'YbUV'YX"
 ; Yb"GYhfYUXn"
 ; Yb"GYhYbUV'YX"

Protection Circuits

K 5F B-B;
 7\Uf[Y Z]i fY"
 6UHYfm@ck #:[\] c' hU[Y"
 : U] h' ghcd"
 @ck #:[\] [YbYfUhc'f j c' hU[Y"
 I bXYf#j Yf [YbYfUhc'f ZYei YbVW"
 Cj Yf# bXYf'gdYYX"
 @ck c]'dfYggi fY"
 <] \ V'c' UbhY'a dYfUhi fY"
 G<I H8CK BG
 : U] h' ghUf"
 9a Yf [YbVW'ghcd"
 @ck c]'dfYggi fY"
 <] \ V'c' UbhY'a dYfUhi fY"
 Cj Yf# bXYf'gdYYX"
 I bXYf#j Yf [YbYfUhc'f ZYei YbVW"
 I bXYf#j Yf [YbYfUhc'f j c' hU[Y"
 C]'dfYggi fY'gYbgcf'cdYb"
 7cc'UbhY'a dYfUhi fY'gYbgcf'cdYb"
 9@97 HF =75@HF -D
 ; YbYfUhc'f c' j YfW ffYbh"

Options

: 'YI J'Y'gYbgcf'Wb VY V'c' bfc' 'YX' k]h' h'Ya dYfUhi fYz
 dfYggi fYz dYfVW'bhU[Y f'k Ufb]b[#]i h'Xck b# 'YVW'VW' h'f'dL
 @c'W' gYh]b['dUfUa YHfg'UbX'a cb]h'f]b['Zca 'D7 h'
 V'c' bfc' 'a cXi 'Y' k]h' I G6 V'c' bbYVW'cb' f'a Ul '* 'a H'

Standards

9'YVW'VW' 'GUZYhm#9A 7 'V'a dUfV']hm6G'9B '* \$-) \$
 9'YVW'VW' 'Vi g]bYgg' 'Yei]da Ybh'
 6G'9B '*%\$ \$! *! & 9A 7 'ja a i b]mighUbxUfX"
 6G'9B '*%\$ \$! *! ('9A 7 'Ya]gg]cb' ghUbxUfX"

Static Battery Charger

'6UHYfmVUf[Yf]g'a Ubi ZVW' fYX' k]h' 'gk]h'W]b[!a cXY'UbX'GA 8 'YVW'bc'c[mUbx'ih\Ug\] [\ YZ]VbYVW' 6UHYfmVUf[Yf
 a cXY'gfci hdi hJ !=VUfUWV'f]gh]W]g'j YfmV'cgY' h'c'gei UfY'UbX'ci hdi h]g'] 'Ua dYfz% z 'J 'Zcf'%&j' c'hUbX' &+Z' 'J 'Zcf'&' ('J '
 #bdi h% , ' ! &* (j c'h57 "' Dfc']bY' &(\$) \Ug'Z 'mici hdi hg\chV'VW]hdfchVW]cb'UbX'ihVWb'VY i gYX'Ug'U'VW'ffYbhgci fVW"
 Dfc']bY' %&\$) #&(\$) VUf[Yf\Ug'\] [\ YZ]VbYVW'cb[']Z'Z' 'ck ZU]i fY'fUfYz'] [\ hk Y] [\ hUbX' 'ck \ YUhfUX]UfYX']b
 UVV'cfXUbW' k]h' ']bYUf'U'fYfbU]j Yg' H\Y' VUf[Yf]g' Z]h'YX' k]h' 'U' dfchVW]cb' X]cXY'UV'cgg'h'Y'ci hdi h'7 cbbYVW'VUf[Y'Z]
 fY'UmV'c'] VYh'YYb'dcg]h]j Y'ci hdi hUbX'7: 'ci hdi h' H\Y'mUfY'Yei]ddYX' k]h' F: =Z]h'f' h'c' fYXi VV'Y'YVW'VW' 'bc]gY' fUX]UfYX
 Zca 'h'Y'XY' jVW'; Uj Ub]W' m]gc'UfYX']bdi hUbX'ci hdi h]md]VW' m(_J 'Zcf'\] [\ fY']UV']h'f'

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APD 145 C - Canopy



- 1 Steel structures
- 2 Emergency stop push button
- 3 Control panel is right side of the set.
- 4 Corrosion-resistant locks and hinges
- 5 Sump drains valves
- 6 Lockable, large doors on each side
- 7 Base frame -tank
- 8 Lifting Points

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.	1070
Length	mm.	3380
Height	mm.	1770
Fuel Tank Capacity		195