

APD 110 C

Engine : Cummins
 Alternator : Aksa
 Control System : P 602



3 Phase Ratings, 50 Hz, PF 0,8

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kW	kVA	kW	Amp
400/230	110,00	88,00	100,00	80,00	145,00

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 rotating and hot parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine coolant 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 bellows supplied separately
- Static battery charger
- Manual for application and installation

OPTIONAL EQUIPMENTS

ENGINE

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

ALTERNATOR

- Anti-Condensation Heater
- Main line circuit breaker

CONTROL SYSTEM

- Charge Ammeter

OTHER ACCESSORIES

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

TRANSFER SWITCH

- Three or four pole contactor
- Three or four pole motor operated circuit breaker

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➤ DIESEL ENGINE SPECIFICATIONS

Manufacturer		Cummins
Model		6 BT 5,9-G2
No. of Cylinders and Build		6 Cylinder, In Line
Aspiration and Cooling		Turbo Charged
Maximum Standby Power		1500 rpm
		92,00 kW [123,00HP]
Total Displacement	L	5,900
Bore and Stroke	mm	102 X 120
Compression Ratio		17,3:1
Rated Speed (rpm)	rpm	1500
Governor		Electronic
Oil Capacity	L	16,40
Coolant Capacity	L	32,90
Intake Air Flow	m ³ /min.	6,50
Radiator Cooling Air	m ³ /min.	136,00
Exhaust Gas Flow	m ³ /min.	16,80
Start System		24 V d.c.
Fuel Consumption	Load	%100
	L/h	22,00

➤ ALTERNATOR SPECIFICATIONS

Make		Aksa
Model		AK480
Frequency	Hz	50
Power	kVA	100,00
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Insulation Class		H
Excitation System		Electronic (AVR)

➤ DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 110 C	1280,00	2150,00	1000,00	1470,00	195,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
ASM 5	1700.00	3120	1070	1720	195

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1 P 602 - Control System



- 1 A U]b'gHh g'X]gd'Um'
- 2 8]gd'UmgVc''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 Věbfc''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&& ž
 9a Yf[YbVhrcd' di g\ 'Vi Hrcb'UbX ž gYg Z'fVěbfc''V]fV]rg''

3 Construction and Finish

7 ca dcbYbrj]bgt'YX']b'g\YYgh'Y'YbWcgi fy''D\cgd\UHY'WYa]W'ždfY!VěU]b['cZghY' d'fcj]XYg Věffcg]cb
 fYg]hUbhgi fZUW''Dc'mYgYfVěa d'cg]Y' d'ck XYf'rcdVěU]hZcfa g\]] ['cgg'UbX'Yi HfYa Y'mXi fUY' ž]b]g''@cV]UV'
 UbX\]b[YX'dUbY'Xccf' d'fcj]XYg YUgmUWV'gg'hc''Věa dcbYbrj''

4 Installation

7 cblfc' d'UbY']g'a ci bHYX'cb VUgYZUa Y'k]h' gHY' g'Ubx''@W]HYX' U]h'Y' f[\hig]XY' cZ'Y [YbYfUrcf' gYhfK \Yb'nci
 'cc_ U]h'Y; Yb''GYH'Zca '5'HYfbUrcfE

5 Generating Set Control Unit

H'Y'8G9''\$\$']g'U'g'U]bXUfX Věbfc''a cXi 'Y'Z'f'ci f[YbYfUrcf'gYhg'i d'hc'&\$\$_j 5'UbX'ih\Uj Y'VYYb'XYg][bYX'hc
 g'U]f'U]bX'ghrcd'X]YgY' UbX' [Ug[YbYfUrcf'gYhg''H'Y'8G9''\$\$' a cXi 'Y'Ug'VYYb'XYg][bYX'hc'a cb]rcf[YbYfUrcf
 Z'Yei YbVěžj c'ž'W'fYb'ž'Yb[]bY'c' d'fYggi fYžVěc'Ubh'Y'a d'YfU]h' fY'fi bb]b[\ci fg'UbX' VU]HY'f'j c'lg''A cXi 'Y
 a cb]rcf'g'h'Y'a U]bg'gi dd'm'UbX'gk]W'c] Yf'hc'h'Y' [YbYfUrcf'k \Yb'h'Y'a U]bg'd'ck Yf'ZU]g''H'Y'8G9''\$\$' U'gc
]bX]W]HY'g'cdYfU]jcbU'g'U]h' g'U]bX'Z]i 'hVěbX]h]cbgž'5i hca U]h'W'm'g\i H]b['X'ck b'h'Y; Yb''GYh'UbX' []]b['H'i Y'ž'fghi d
 ž]i 'hVěbX]h]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'Věbfc''YX''
 @78'X]gd'Uma U_Yg]bZcfa U]jcb'YUgm'hc'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' [YbYfUrcf' 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]nci H'
 : fcbhd'UbY'd'fc[fUa a]b[''
 FYa cHY'g'U]f'f'

9j Ybh'c[[]b['f]g'g'ck]b['X'U]Y'UbX'h'a Y''
 7 cblfc'g' Ghrcd#F'YgY]h'Z'Ubi U'ž'5i hcž'HYgh'GH'f'f'Vi Hrcbg''5b'UXX]h]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 YH'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' ghUff"
 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 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'WVb VY V'c'UbhY'a dYfUhi fY'Z
 dfYggi fY'Z dYfVW'bH[Y f'k Ufb]b[#]i f'Xck b# 'YVW'VW' f'f'dL
 @c'W'gYh]b['dUfUa YHfg'UbX'a cb]h'f]b['Zca 'D7 h'
 V'c'UbhY'a cXi 'Y'k]h' I G6 V'c'UbhY'a cb'fa Ul '* 'a H'

Standards

9'YVW'VW' GUZYhm#9A 7 'V'c'UbhY'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 jgg]cb'ghUbxUfX"

Static Battery Charger

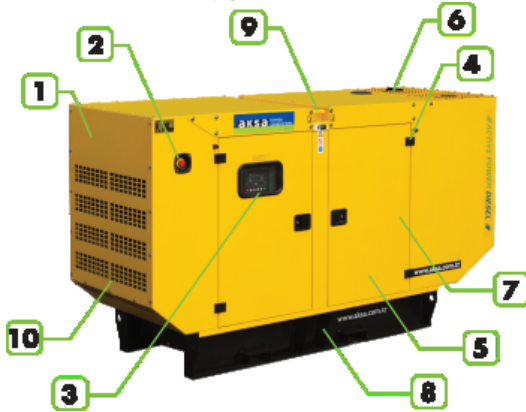
'6UHYfmVUf[Yf]g'a Ubi ZVW' fYX'k]h' gk]h'W]b[!a cXY'UbX'GA 8 'YVW'bc'c[mUbX'ih\Ug \] [\ YZ]VbYVW' 6UHYfmVUf[Yf
 a cXY'gfci hdi hJ !=VUfUW'f]gh]W]g'j YfmV'cgY'hc'gei UfY'UbX'ci hdi h]g']'Ua dYfz% z 'J 'Zcf'& j c'hUbX' & + * 'J 'Zcf'& ('J '
 #di h% , ' ! & * (j c'h57 "' Dfc]bY' & (\$) \Ug'Z 'mici hdi hg\chV'VW]hdfchV'W]cb'UbX'ihVWb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

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1 ASM 5 - Canopy



- 1 Steel structures.
- 2 Emergency stop push button.
- 3 Control panel is mounted on the baseframe . Located at the right side of the generator set.
- 4 Corrosion-resistant locks and hinges.
- 5 oil could be drained via valve and a hose
- 6 Exhaust system in the canopy.
- 7 special large access doors for easy maintenance
- 8 Base frame -fuel tank.
- 9 Lifting Points.
- 10 sound proofing materials.

2 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.

3 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.	3120
Height	mm.	1720
Fuel Tank Capacity	L	195