

# APD 20 A

Engine : Aksa  
Alternator : Aksa  
Control System : P 611



## 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	20,00	16,00	18,00	14,40	26,00

**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 jacket water 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

#### ALTERNATOR

- Anti-Condensation Heater
- Main line circuit breaker

#### CONTROL SYSTEM

- Charge Ammeter

#### OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Residential silencer
- Enclosure: weater protective or sound attenuated
- Trailer
- Tool kit for maintenance
- Main Fuel Tank

#### TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor
- Motor Switch

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## ➤ DIESEL ENGINE SPECIFICATIONS

Manufacturer		Akxa
Model		A4CRX22
No. of Cylinders and Build		4 Cylinder, In Line
Aspiration and Cooling		Naturally Aspirated
Maximum Standby Power		1500 rpm
		20,00 kW [27,00HP]
Total Displacement	L	2,150
Bore and Stroke	mm	85X95
Compression Ratio		18:1
Rated Speed (rpm)	rpm	1500
Governor		Mechanical
Oil Capacity	L	10,00
Coolant Capacity	L	10,00
Intake Air Flow	m <sup>3</sup> /min.	2,30
Radiator Cooling Air	m <sup>3</sup> /min.	110,00
Exhaust Gas Flow	m <sup>3</sup> /min.	6,50
Start System		12 V d.c.
Fuel Consumption	Load	%100
	L/h	4,50

## ➤ ALTERNATOR SPECIFICATIONS

Make		Akxa
Frequency	Hz	50
Power	kVA	22,50
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Insulation Class		H
Rotor		Single Bearing System, Flexible Disc
Excitation System		Electronic ( AVR )

## ➤ DIEMENSIONS AND WEIGHT

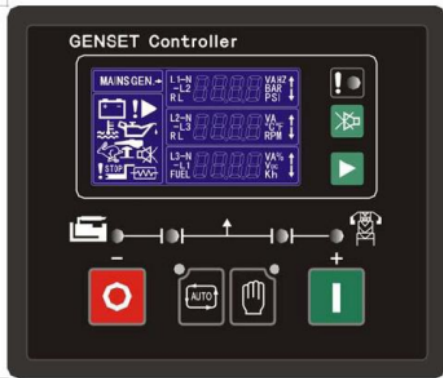
Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 20 A	510,00	1500,00	910,00	1100,00	70,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 15	680,00	1850	900	1150	70

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## P 611 - Control System



- 1 A U]b'gHh g'X]gd'Um'
- 2 8]gd'Um]gVc''Vi Hrcb''
- 3 DU[ Yf]bZcfa U]hcbE'Vi Hrcb''
- 4 7ca ca cb U'Ufa ]bX]W]Hrcf''
- 5 GHh g'@98fj''
- 6 CdYfU]hcb'gY'YV]b[ 'Vi Hrcbg''

### Devices

<UfgYbZa cXY''; I \*%& '5i Hc'A U]bg: U]i fY Vcbfrc''a cXi 'Y'  
6UHYfmVUf[ Yf' ]bdi h%, !&\* ( 'j c'hZci hdi h''&+Z' J ) '5'f&( 'J Ecf%' ž 'J c'h) 5'f&J E  
9a Yf[ YbVh]gred'di g\ 'Vi Hrcb'UbX Z gYg ZcfVcbfrc' V]fV ]rg''

### Construction and Finish

7ca dcbYb]g UfY ]bgH'YX ]b'g\YHghY'Y'YbWc]gi fY''D\cgd\UHY V]Ya ]W]ZdfY!VcbU]b[ 'cZghY'Y'dfcj ]X]g Vcbfc]cb  
fYg]g]U]bhgi fZUW''Dc'mYg]YfVcb dcm]Y dck XYf hcdVcbU]hZcfa g\ ] [ 'cgg'UbX'Yi HfYa Y'mXi fUY'Y Z]b]g\''@cV]UVY  
UbX\]b[ YX dUbY'Xccf dfcj ]X]g YUgmUWV]gg'hc' Vcb dcbYb]g''

### Installation

7cbfrc' dUbY'' ]g'a ci bHY'cb HfY; YbGYhZVcb]g]XYf]b[ 'HfY YUgmUWV]gg'hc' Vcbfrc' dUbY''

### Generating Set Control Unit

HfY''; I \*%& 'Vcbfrc''a cXi 'Y ]g'gi ]U]VY Zcf'i gY ]b'ci f[ YbYfU]rcf'gY]g'i d'hc' &\$\$\_J 5'UbX'ih\Ug VYyb'XYg][ bYX Hc'  
g]U]f]hUbX'ghcd'X]YgY'UbX' [ Ug[ YbYfU]rcf'gY]g''HfY; I \*%& 'a cXi 'Y\Ug VYyb'XYg][ bYX'hc'a cb]rcf[ YbYfU]rcf'  
Z]Yei YbVh]zj c' ]U[ YZ]W ffYb]zYb[ ]bY'c]'dfYggi fYZVcb'Ubh]Ya dYfU]h fY''fi bb]b[ '\ci fg'UbX'VU]HYfmj c' ]rg''A cXi 'Y  
a cb]rcf'g'HfY'a U]bg'gi dd'mUbX'gk ]H\ 'cj Yf'hc' HfY [ YbYfU]rcf'k \Yb' HfY'a U]bg'dck Yf Z] ]g'' HfY; I \*%& 'U'gc  
]bX]W]HfY'g'cdYfU]hcbU' g]U]h g'UbX Z]i 'hVcbX]h]cb]gZ'5i Hca U]h]W'm]g]i H]b[ 'Xck b' HfY; Yb''GYhUbX' [ ] ]b[ 'HfY Y Z]f]g]h  
Z]i 'hVcbX]h]cb'cZ; Yb''GYhZ]i fY''HfY'@78 X]gd'Um]bX]W]HfY'g'HfY Z]i 'H'

#### Standard Specifications

A ]Vcbfrc'W]ggcf'Vcbfrc''YX''  
@78 X]gd'Uma U\_Yg ]bZcfa U]hcb'YUgm]rc'fYUX''  
5i Hca U]h]W'm]f]U]bgZ]fg'VY]k Y]b'a U]bg'f]i H]m]k'UbX' [ YbYfU]rcf' dck Yf''  
A Ubi U'dfc[ fUa a ]b[ 'cb Z]cb]hdUbY''  
I gYf] Z]Y]bX'm]gY]h]i d'UbX'Vi Hrcb''U]nci H'  
F Ya c]Y'g]U]f]H'  
7cbfrc'g' GHcd#f'YgY]z'A Ubi U'Z]5i HcZ'@Ua d'HYg]H]A i HfY'Z]GH]f]z'Vi Hrcbg''5b UXX]h]cbU' di g\ 'Vi Hrcb' bYi Hrc' HfY'@78  
X]gd'Um]g]i gYX'hc'gVcb''Hfci [ \ HfY'a cXi 'Yg]f]a YHf]b[ 'X]gd'Um]g''

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## Instruments

9B: -B9  
 9b[ ]bY'gdYYX"  
 C]'dfYggi fY"  
 7cc'UbhTYa dYFUhi fY"  
 Fi b'hja Y"  
 6UHYfmj c'lg"  
 ; 9B9F5HCF  
 Jc'U[ Y f@B'E"  
 7i ffYbhf@A@&@ E"  
 : fYei YbWm  
 A5-BG  
 Jc'U[ Y f@B'E"  
 : fYei YbWm  
 AU]bg'fYUXm'  
 AU]bg'YbUV'YX"  
 ; Yb"GYhfYUXm'  
 ; Yb"GYhYbUV'YX"

## Protection Circuits

"K 5F B-B; ! DfYU'Ufa g  
 "  
 7\Uf[ Y ZU]i fY"  
 6UHYfm@ck #< ][ \ j c'U[ Y"  
 @ck #< ][ \ [ YbYfUhc'f j c'U[ Y"  
 Cj YfW ffYbh  
 Cj Yf# bXYf'gdYYX"  
 @ck c]'dfYggi fY"  
 <][ \ V@c'UbhTYa dYFUhi fY"  
 AU]bg'ZU]i fY  
 @ck Z Y"Y'Y' ]ZV@bZ[i fYX  
 5i l ]]UfmdfY!U'Ufa g  
 G<l H8CK BG  
 : U]'hc'ghUff'  
 9a Yf[ YbVhghcd"  
 @ck c]'dfYggi fY  
 <][ \ V@c'UbhTYa dYFUhi fY"  
 Cj Yf# bXYf'gdYYX"  
 Cj YfW ffYbh  
 l bXYf#<j Yf[ YbYfUhc'f j c'U[ Y"  
 5i l ]]Ufm: U]i fY  
 9@97 HF -75@HF -D  
 ; YbYfUhc'f c j YfW ffYbh'

## Options

: 'Yl JV'Y'gYbgcf'WUlb VY V@bfc'YX'k ]h' hYa dYFUhi fYz  
 dfYggi fYz'gk ]hV V@bfc'fk Ufb]b[ #g\i hXck b#Y'VM'W'  
 hf]d't  
 @cW'gYh]b[ 'dUfUa YHYfg'UbX'a cb]hc'f]b[ 'Z'ca 'D7' hc  
 V@bfc'a cXi 'Y'k ]h' l G6 V@bbYVM]cb'fa Ul '\* 'a h'

## Standards

9; G5 'f9'YVM'W'; YbYfUhb[ 'GngTYa g'5ggcVU]h]cb't  
 79  
 -GC- \$\$%G; G

## Static Battery Charger

'6UHYfmVXUf[ Yf]g'a Ubi ZUVh fYX'k ]h' gk ]hV]b[ !a cXY'UbX'GA 8 hVW'bc'c[ mUbX'ih\Ug'\][ \ 'YZV]bYVM' 6UHYfmVXUf[ Yf  
 a cXY'gfci hdi hJ !=VXUfUVM'f]gh]W]g'j YfmV@cgY'hc'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' "mci hdi hg\chV]V]hdfchV]V]cb'UbX'ihVUb'VY'i gYX'Ug'U'VW'ffYbhgci fVY"  
 Dfc]'bY' %&\$) #&(\$) 'VXUf[ Yf\Ug'\][ \ 'YZV]bYVM'z'cb[ " ]Z'z' "ck 'ZU]i fY'fUHY'z' ][ \ hk Y][ \ hUbX' "ck \ 'YUhfUX]UfYX' ]b  
 UVV@fXUbW' k ]h' " ]bYUf'U' h'fbU]h] Yg" h\Y' VXUf[ Yf]g' Z'hYX'k ]h' 'U' d'fchV]V]cb' X]cXY' UVV@cg' h\Y'ci hdi h' 7 cbbYVM'VXUf[ Y'ZU]  
 fY'UmV@' ]VYtk Yyb'dcg]h] Y'ci hdi hUbX' 7: 'ci hdi h' h\Y'mUfY' Yei ]ddYX'k ]h' F: =Z' h'f'hc' fYXi W' Y'YVM'W' 'bc]gY' fUX]UfYX'  
 Z'ca 'h\Y'XY' ]W'; Uj Ub]W' "m]gc'UfYX' ]bdi hUbX'ci hdi h]md]W' "m( \_ ] 'Zcf'\ [ \ 'fY' ]UV' ]h' m'

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## AK 15 - 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 (When you look at the Gen.Set. from Alternator)
- 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 the cap on the canopy provides easy access to radiator cap.
- 11 sound proofing materials
- 12 Plastic air intake pockets

## 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 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.	900
Lenght	mm.	1850
Height	mm.	1150
Fuel Tank Capacity		70