

# APD 50 A

Engine : Aksa  
 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 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	50,00	40,00	45,00	36,00	64,00

**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

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

#### TRANSFER SWITCH

- 
- Four Pole Contactor
-

# APD 50 A

Engine : Aksa  
 Alternator : Aksa  
 Control System : P 602



## ➤ DIESEL ENGINE SPECIFICATIONS

Manufacturer		Aksa
Model		A4CRX47
No. of Cylinders and Build		4 Cylinder, In Line
Aspiration and Cooling		Naturally Aspirated
Maximum Standby Power		1500 rpm
		48 kW[64HP]
Total Displacement	L	4,95
Bore and Stroke	mm	108 x 135
Compression Ratio		17:1
Rated Speed (rpm)	rpm	1500
Governor		Mechanical
Oil Capacity	L	14,00
Coolant Capacity	L	25,00
Intake Air Flow	m <sup>3</sup> /min.	3,10
Radiator Cooling Air	m <sup>3</sup> /min.	180
Exhaust Gas Flow	m <sup>3</sup> /min.	8,30
Start System		12 V d.c.
Fuel Consumption	Load	%100
	L/h	11,10

## ➤ ALTERNATOR SPECIFICATIONS

Make		Aksa
Frequency	Hz	50
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Insulation Class		H
Rotor		Single Bearing System, Flexible Disc

## ➤ DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 50 A	960	1860	900	1450	150
Sound Attenuated Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 50 a	1350	2500	970	1600	150

# APD 50 A

Engine : Akxa  
Alternator : Akxa  
Control System : P 602



## 1 P 602 - Control System



- 1 A U]b'gHh g'X]gd'Um'
- 2 8]gd'UmgVc''Vi Hrcb''
- 3 DU[ Yf]bZcfa UhjcbE'Vi Hrcb''
- 4 7 ca a cb U'Ufa ]bX]WUrcf''
- 5 GHh g'@98fj''
- 6 C dYfUhjcb'gY'YVW]b[ 'Vi Hrcbg''

## 2 Devices

8G9ža cXY''\$\$'5i hc'A U]bg:] U]i fy Vëbfc''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[ YbVhgrcd' di g\ 'Vi Hrcb'UbX ž gYg Zc'fVëbfc''V]fV ]rg''

## 3 Construction and Finish

7 ca dcbYbrj ]bghU''YX ]b'g\YYgh''Y'YbWcgi fy''D\cgd\UHY'WYa ]WždfY!VëUh]b[ 'cZghY''dfcj ]XYg Vëffcg]cb  
fyg]ghUbhgi fZUV''Dc'mYghY'Vëa dcm]Y' dck XYf'rcdVëUhZcfa g\]] \ [ 'cgg'UbX'Yi HYa Y'mXi fUV'Y ž]b]g\''@cV\UV'Y  
UbX\]b[ YX'dUbY'Xccf'dfcj ]XYg YUgmUVW]gg'hc''Vëa dcbYbrj''

## 4 Installation

7 cblfc' dUbY''j]g'a ci bHYX'cb VUgYZUa Y'k ]h' ghY''ghUbX''@cW]HYX'UhH'Y'f][ \hig]XY'cZH'Y [ YbYfUrcf'gyHfK \Yb'mci  
'cc\_'UhH'Y; Yb''GYH'Zca '5'HYfbUrcfE

## 5 Generating Set Control Unit

H'Y''8G9''\$\$'j]g'U'ghUbXUfX Vëbfc''a cXi 'Y'Zc'ci f [ YbYfUrcf'gyHgi d'hc'&\$\$\_j 5'UbX'ih\Uj Y'VYYb'XYg][ bYX'hc  
ghUfhUbX'ghcd'X]YgY' UbX' [ Ug[ YbYfUrcf'gyHgi''H'Y'8G9''\$\$'a cXi 'Y\Ug'VYYb'XYg][ bYX'hc'a cb]rcf [ YbYfUrcf  
Z'Yei YbVhžj c'bz'W'fYbHžYb[ ]bY'c]'dfYggi fyZ'Vëc'UbH'Ya dYfUhi fy'fi bb]b[ \ci fg'UbX' VUHY'fmj c'lg''A cXi 'Y  
a cb]rcf'g'h'Y'a U]bg'gi dd'mUbX'gk ]H'W'c] Yf'hc'h'Y [ YbYfUrcf'k \Yb'h'Y'a U]bg'dck Yf'ZU]g''H'Y'8G9''\$\$'U'gc  
]bX]W]H'g'cdYfUhjcbU'ghUhi g'UbX'Zji 'hVëbX]h]cbgž'5i hca Uh]W'mg\i H]b[ 'Xck b'h'Y; Yb''GYhUbX' [ ] ]b[ 'Hfi Y'Zfghi d  
Zji 'hVëbX]h]cb'cZ; Yb''GYhZU]i fy''H'Y'@78'X]gd'Um]bX]W]H'g'h'Y'Zji 'H'

### Standard Specifications

A ]WëdfcW'ggcf'Vëbfc''YX''  
@78'X]gd'Uma U\_Yg ]bZcfa Uhjcb'YUgmhc'fYUX''  
(!'j]bYž\*( '1'%'&d] ]Y'X]gd'Um'

5i hca Uh]W'mifUbgZ'fg'VYk'YYb'a U]bg'fi H]h'hc'UbX' [ YbYfUrcf'dck Yf''  
A Ubi U'dfc[ fUa a ]b[ 'cb'ZcbhdUbY''  
I gYf]Z]YbX'mgYH'i d'UbX'Vi Hrcb''Urci H'  
: fcbhdUbY'dfc[ fUa a ]b[ ''  
F Ya cHY'ghUfH'  
9j Ybh'c[ [ ]b[ 'f]g'kg\ck ]b[ 'XUHY'UbX'h'a Y''  
7 cblfc'g' Ghcd#F'YgYhZ'A Ubi U'ž'5i hcž'HYghZ'GHUfz'Vi Hrcbg''5b'UXX]h]cbU'di g\ 'Vi Hrcb'bYi hrc'h'Y'@78'X]gd'Um]g  
i gYX'hc'gVëc''h'fci [ \ h'Y'a cXi 'Yg'f'a YH'f]b[ 'X]gd'Um]g''

# APD 50 A

Engine : Aksa  
 Alternator : Aksa  
 Control System : P 602



## 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@&@' "  
 : 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'V'Y'gYbgcf'WVb VY V'c'bfcc'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'bfcc'a cXi 'Y'k ]h' I G6 V'c'bbYVW'cb'fa 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 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 !=VUfUWV'f]gh]W]g'j YfmV'cgY' h'c'gei UfY'UbX'ci hdi h]g' ]'Ua dYfz% z' ]'Zcf'%&j'c'hUbX'&+Z' ]'Zcf'&'( ]'  
 #bdi h% , ' !&\* ( j c'h57 "'Dfc]bY'&(\$) \Ug'Z' mci 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'hYX'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 V'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'

# APD 50 A

Engine : Aksa  
 Alternator : Aksa  
 Control System : P 602



## APD 50 a - 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.	970
Length	mm.	2500
Height	mm.	1600