

# AP 88

Engine : Perkins  
 Alternator : Mecc Alte  
 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	88,00	70,40	80,00	64,00	115,50

**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 (for open sets)
- Static battery charger
- Manual for application and installation

### OPTIONAL EQUIPMENTS

#### ENGINE

- Fuel-Water Separator Filter
- Low water level alarm
- Oil heater

#### ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- Main line circuit breaker

#### CONTROL SYSTEM

- Remote annunciator panel
- Remote relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charge Ammeter

#### OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Residential silencer
- Enclosure: weather protective or sound attenuated
- Duct adapter ( on radiator)
- Inlet and outlet motorised louvers
- Inlet and outlet acoustic baffles
- Trailer
- Tool kit for maintenance
- Supplied with oil and coolant - 30 °C
- Battery isolating switch
- 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		Perkins		
Model		1104A-44TG2		
No. of Cylinders and Build		4 Cylinder, In Line		
Aspiration and Cooling		Turbo Charged		
Maximum Standby Power		1500 rpm		
		80,70 kw [108,22HP]		
Total Displacement	L	4,400		
Bore and Stroke	mm	105x127		
Compression Ratio		17,25:1		
Rated Speed (rpm)	rpm	1500		
Governor		Mechanical		
Oil Capacity	L	8,00		
Coolant Capacity	L	13,00		
Start System		12 V d.c.		
Fuel Consumption	Load	%100	%75	%50
	L/h	18,70	14,00	9,70

## ➤ ALTERNATOR SPECIFICATIONS

Make		Mecc Alte
Model		ECP34-1S/4
Frequency	Hz	50
Power	kVA	85,00
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Current	A	122,70
Insulation Class		H
Stator		2 / 3 steps
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
AP 88	1020,00	2150,00	1050,00	1390,00	240,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 40	1741	3100	1113	1741	240

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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]jcbk'Vi Hrcb''
- 4 7 ca a cb U'Ufa ]bX]W]hrc''
- 5 GHh g'@98fg''
- 6 C dYfU]jcb'gY'YV]b[ 'Vi Hrcbg''

## 2 Devices

8G9ža cXY''\$\$'5i hc' A U]bg: U]i fy Vëbfc''a cXi 'Y''  
 6UHYfmVUf[ Yf]jodi h%, !&\* ( 'j c'hžci rdi h''&+ž' 'j ) '5'f&( 'j E'cf%' ž 'j c'h) 5'f&& ž  
 9a Yf[ YbVhrc'd' di g\ 'Vi Hrcb'UbX ž gYg'Zc'fVëbfc''V]fV ]rg''

## 3 Construction and Finish

7 ca dcbYbrg ]bgh'YX' ]b'g\YYgh'Y'YbWcgi fy''D\cgd\UHY'WYa ]W'ždfY!VëU]b[ 'cZgh'Y' d'fcj ]Xyg Vëffcg]cb  
 fyg]gh'bhgi fZ]W''Dc'mYgh'fVëa d'cg]Y' d'ck XYf' h'cdVëU]h'Zcfa g\ ] [ 'cgg'UbX'YI h'Ya Y'mXi fUV'Y ž]b]g''@cV]UV'Y  
 UbX\]b[ YX'dUbY'Xccf' d'fcj ]Xyg YUgmUWV'gg'hc' Vëa dcbYbrg''

## 4 Installation

7 cblfc' d'UbY' ]g'a ci bHYX'cb' VUgYZUa Y k ]h' gHY' g'Ubx''@cW]HYX' Uhi'Y' f[ \ h]g]XY' cZ'Y [ YbYfU]rc'f' gYh'fK \Yb'nci  
 'cc\_ Uhi'Y; Yb''GYH'Zca '5'fYfbU]rc'f'

## 5 Generating Set Control Unit

H\Y''8G9''\$\$' ]g'U'ghUbxUfX Vëbfc''a cXi 'Y'Zc'f'ci f[ YbYfU]rc'f'gYhg'i d'hc'&\$\$\_J 5'UbX'ih\Ug'VYYb'XYg][ bYX'hc'  
 ghUfhUbx'gh'cd'X]YgY' UbX' [ Ug[ YbYfU]rc'f'gYhg''H\Y'8G9''\$\$' a cXi 'Y\Ug'VYYb'XYg][ bYX'hc' a cb]rc'f[ YbYfU]rc'f'  
 ZYei YbVhžj c' h'W'fYb'Yb[ ]bY'c' ] d'fYggi fYžVëc'UbhiYa dYfUhi fy' fi bb]b[ \ci fg'UbX' VUHY'fmj c' h]g''A cXi 'Y  
 a cb]rc'f'g'h'Y'a U]bg'gi dd'imUbX'gk ]W'c] Yf'hc' h'Y [ YbYfU]rc'f'k \Yb'h'Y'a U]bg'd'ck Yf'Z]g''H\Y'8G9''\$\$' U'gc  
 ]bX]W]Yg'cdYfU]jcbU'ghUhi g'Ubx'Z]i 'hVëbX]h]cbgž'5i hca U]h'W'mg\i h]b[ 'Xck b'h'Y; Yb''GYhUbx' [ ] ]b[ 'h'f' Y'žfghi d  
 ž]i 'hVëbX]h]cb'cZ; Yb''GYhZ]i' fy''H\Y'@78'X]gd'Um]bX]W]Yg'h'Y'Z]i 'h'

### Standard Specifications

- A ]Wëd'fc'W'ggcf'Vëbfc''YX''
- @78'X]gd'Uma U\_Yg ]bZcfa U]jcb'YUgmhc'fYUX''
- (! ]bYž\*( '1' % & d] Y'X]gd'Um'
- 5i hca U]h'W'mifUbgZ'fg'VYh'YYb'a U]bg'fi h]h'hc'UbX' [ YbYfU]rc'f' d'ck Yf''
- A Ubi U'dfc[ fUa a ]b[ 'cb'Zc'bh'hd'UbY''
- I gYf]Z]YbX'mgYh'i d'UbX'Vi Hrcb''U]rc'f' h'
- F Ya cHY'ghU]f'
- 9j Ybh'c[ [ ]b[ 'f] h'g\ck ]b[ 'XUHY'UbX'h'a Y''
- 7 cblfc'g' Gh'cd#F YgYh'Z'A Ubi U'ž5i h'cžHYgh'žGHU]f'žVi Hrcbg''5b'UXX]h]cbU'di g\ 'Vi Hrcb'bYI h'hc' h'Y'@78'X]gd'Um]g  
 i gYX'hc'gVëc''h'f'ci [ \ h'Y'a cXi 'Ygfa YH'f]b[ 'X]gd'Umg''

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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 fUVY' hja ]b[ "  
 ; 9B9F5HCF  
 J c' hU[ Y f@ @B' "  
 7i ffYbhf@ @& @' "  
 : fYei YbVW"  
 A5-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

K5FB-B:  
 7\Uf[YZ]i fY"  
 6UHYfm@ck#[ ]\j c'hU[Y"  
 : U] h' ghcd"  
 @ck#[ ]\ [ YbYfUhc'fj c'hU[Y"  
 I bXYf#j Yf [ YbYfUhc'fZ'Yei 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'fZ'Yei YbVW"  
 I bXYf#j Yf [ YbYfUhc'fj c'hU[Y"  
 C]'dfYggi fY'gYbgcf'cdYb"  
 7cc'UbhY'a dYfUhi fY'gYbgcf'cdYb"  
 9@97HF=75@HF-D  
 ; YbYfUhc'fj YfW'ffYbH'

## Options

: 'YI J'Y'gYbgcf'Wb'VY V'c'bfcc'YX'k ]h' h'Ya dYfUhi fYz  
 dfYggi fYz dYfVW'bH[U'Y f'k Ufb]b[ #]i h'Xck b# 'YVW'VW' h'f'dL  
 @c'W'gYh]b[ 'dUfUa YH'fg'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 ]gg]cb'ghUbxUfX

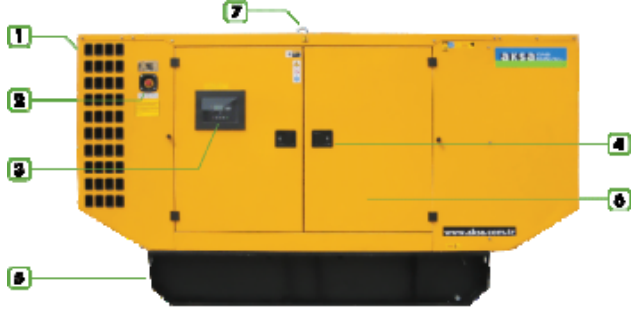
## Static Battery Charger

'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]VYbVW' 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'&] c'hUbX' &+Z' ] 'Zcf'& ( ' ] "  
 #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]VYbVW'cb[ " ]Z'Z' "ck ZU]i fY'fUfYz' ] [ \hk Y] [ \hUbX' "ck \YUhfUX]UfYX' ]b  
 UVW'cfXUbVW' 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' fYXi V'Y'YVW'VW' 'bc]gY'fUX]UfYX  
 Zca 'h'Y'XY' ]VW'"; Uj Ub]W' m]gc'UfYX' ]bdi hUbX'ci hdi h]m]d]VW' m( \_J 'Zcf\ ] [ \ fY' ]UV' ]h'f'

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## AK 40 - 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 Sound proof foam material
- 7 Lifting Points

## 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.	1113
Length	mm.	3100
Height	mm.	1741
Fuel Tank Capacity	L	240