

APD16MA 11KW

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

1 Phase Ratings, 50 Hz, PF 1,0

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kw	kVA	kw	Amp
230 Monofaze	11.00	11,00	10.00	10,00	43,00

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



1 DIESEL ENGINE SPECIFICATIONS

Manufacturer		Aksa
Model		A4CRX18
No. of Cylinders and Build		4 Cylinder, In Line
Aspiration and Cooling		Naturally Aspirated
Maximum Standby Power		1500 rpm
		15,00 kw [20,10HP]
Total Displacement	L	1,808
Bore and Stroke	mm	80 X 90
Compression Ratio		18:1
Rated Speed (rpm)	rpm	1500
Governor		Mechanical
Oil Capacity	L	5,00
Coolant Capacity	L	9,00
Intake Air Flow	m ³ /min.	2,00
Radiator Cooling Air	m ³ /min.	120,00
Exhaust Gas Flow	m ³ /min.	5,80
Start System		12 V d.c.
Fuel Consumption	Load	%100
	L/h	4,10

1 ALTERNATOR SPECIFICATIONS

Make		Aksa
Frequency	Hz	50
Power	kw	11,00
Design		Brushless, 4 poles
Cos Phi		1,00
Phase		1
Voltage	V	230
Insulation Class		H
Rotor		Single Bearing System, Flexible Disc
Excitation System		Electronic (AVR)

WEIGHTS AND DIMENSIONS

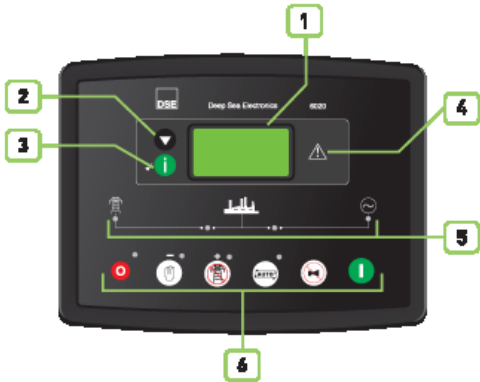
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
ANS 1	520	1670	820	1130	32

APD 16 MA

Engine : Akxa
 Alternator : Akxa
 Control System : P 602



P 602 - Control System



- 1 A U]b'gUhi g'X]gd'Um'
- 2 8]gd'UmgVfc''Vi hrcb''
- 3 DU[Yf]bZcfa UhjcbE'Vi hrcb''
- 4 7 ca a cb U'Ufa]bX]WUrcf''
- 5 GHUhi g'@98fj''
- 6 C dYfU]hcb'gY'YVW]b['Vi hrcbg''

Devices

8G9ža cXY''\$\$5i hc A U]bg: U]i fy Věbfc''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&J Ł
 9a Yf[YbVhgrcd di g\ 'Vi hrcb'UbX ž gYg Zc'fVěbfc' V]fVW]rg''

Construction and Finish

7 ca dcbYbrj]bghU'YX]b g\YYghHY''YbWcgi fy''D\cgd\UHY'WYa]W'ždfY!VěU]b['cZghYY''dfcj]XYg Věffcg]cb
 fy]ghUbhgi fZUW''Dc'mYghY'Věa dcm]Y' dck XYf'rcdVěUhZcfa g\]] \ ['cgg'UbX'Yi HYa Y'mXi fUV'Y ž]b]g\''@cV\UV'Y
 UbX\]b[YX dUbY'Xccf dfcj]XYg YUgmUWV'gg hc 'Věa dcbYbrj''

Installation

7 cblfc' dUbY']g'a ci bHY'cb VUgYZUa Y k]h' ghY''ghUbX''@cWUHY'X'UhH'Y'f[\hig]XY'cZH'Y [YbYfUrcf'gyHfK \Yb'mci
 'cc_'UhH'Y; Yb''GYH'Zca '5'HYfbUrcfŁ

Generating Set Control Unit

HV''8G9''\$\$]g'U'ghUbXUfX Věbfc''a cXi Y'Zc'ci f [YbYfUrcf'gYhg'i d'hc'&\$\$_J 5'UbX'ih\Ug'VYyb'XYg]] bYX'hc
 ghUfU'UbX'ghcd'X]YgY' UbX [Ug [YbYfUrcf'gYhg''H'Y'8G9''\$\$'a cXi Y'\Ug'VYyb'XYg]] bYX'hc'a cb]rcf [YbYfUrcf
 ZYei YbVhžj c'ž'W'fYbž'Yb []bY'c']dfYggi fYžVěc'UbhHYa dYfUhi fy' fi bb]b[\ci fg'UbX' VUHY'fmj'c'lg''A cXi Y'
 a cb]rcf'g'HYa U]bg'gi dd'mUbX'gk]W' c] Yf'hc'HY [YbYfUrcf'k \Yb'HYa U]bg'dck Yf'ZU]g''H'Y'8G9''\$\$'U'gc
]bX]WUHY'g'cdYfU]hcbU'ghUhi g'UbX'Zi 'hVěbX]hcbgž'5i hca U]W'mg\i H]b ['Xck b'HY; Yb''GYhUbX []]b ['fi Y'žfghi d
 ži 'hVěbX]hcb'cZ; Yb''GYhZU]i fy''H'Y'@8'X]gd'Um]bX]WUHY'g'HY'Zi 'H'

Standard Specifications

- A]VědfcW'ggcf'Věbfc''YX''
- @7 8'X]gd'Uma U_Yg]bZcfa Uhjcb'YUgmhc'fYUX''
- (!]bYž*(1 '% &d] Y'X]gd'Um'
- 5i hca U]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''Unci H'
 F Ya cHY'ghUfH'
- 9j Ybh'c []]b ['f] eg\ck]b ['XUHY'UbX'HYa Y''
- 7 cblfc'g' Ghcd# YgYž'A Ubi U'ž5i hcžHYg]žGHUf]Vi hrcbg''5b'UXX]hcbU'di g\ 'Vi hrcb'bYi hrc'HY'@7 8'X]gd'Um]]
 i gYX'hc'gVfc''h'fci [\ 'HY'a cXi Y'gfa YHYf]b ['X]gd'Umg''



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Instruments

9B: #9
 9b[]bY'gdYYX"
 C]'dfYggi fY"
 7cc'UbhY'a dYFUh 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'fYUXm'
 A U]bg'YbUV'YX"
 ; Yb"GYhfYUXm'
 ; Yb"GYhYbUV'YX"

Protection Circuits

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

Options

: 'YI J'V'Y'gYbgcf'WVb VY V' b'f'c'`YX'k]h' h'Ya dYFUh fYz
 dfYggi fYz dYfVW'bU[Y f'k Ufb]b[#]i f'Xck b# 'YVW'VW' f'f'dL
 @c'WV' gYh]b['dUfUa YHfg'UbX'a cb]h'f]b['Zca 'D7 h'c
 V' b'f'c'`a cXi 'Y'k]h' I G6 V' b'bbYVW'cb'fa Ul '* 'a H'

Standards

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

Static Battery Charger

'6UHYfmVWUf[Yf]g'a Ubi ZUM fYX'k]h' gk]h'W]b[!a cXY'UbX'GA 8 fYVW'bc'c[mUbx'ih\Ug\] [\ YZVW'VW' 6UHYfmVWUf[Yf
 a cXY'gf'ci hdi hJ !=VWUfUW'f]gh]W]g'j YfmV'cgY' h'c'gei UfY'UbX'ci hdi h]g') 'Ua dYfz% z' J 'Zcf'&]c'hUbX'&+Z' J 'Zcf'&('J' "
 #di h%, ' !&* (j c'h57 "' Dfc]bY' &(\$) \Ug'Z' mci hdi hg'chVW'VW]hdfchVW]cb'UbX'ihVWb VY i gYX'Ug'U'W'ffYbhgci fVW"
 Dfc]bY' %&\$) #&(\$) V'XUf[Yf\Ug'\] [\ YZVW'VW'cb["]Z'Z' c'k ZU]i fY'fUYZ'] [\ hk Y] [\ hUbX' c'k \ YUhfUX]UfYX']b
 U'V' b'f'XUbW' k]h' "]bYUf'U'fYbUf] Yg' H\Y' V'XUf[Yf]g' Z'hYX'k]h' U' d'fchVW]cb'X]cXY' U'V'cgg'h'Y'ci hdi h' 7 cbbYVW'VWUf[Y'ZU]
 fY'UmV'c] VYh' Yb' d'cg]h] Y'ci hdi hUbX' 7: 'ci hdi h' H\Y'mUfY' Yei]ddYX'k]h' F: =Z]h'f' h' fYXi V' Y'VW'VW'bc]gY' fUX]UfYX'
 Zca 'h'Y'XY']VW'; Uj Ub]W' m]gc'UfYX']bdi hUbX'ci hdi h'hd]W' m(_J 'Zcf'] [\ fY']UV']m'



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ANS 1 - Canopy



- 1 Steel structures.
- 2 Emergency stop push button.
- 3 Control panel
- 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
- 11 Power out

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.	820
Length	mm.	1670
Height	mm.	1130
Fuel Tank Capacity	L	32

THE GENERATOR SALES & SERVICING COMPANY LTD

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