

Engine: Alternator: Aksa Control System: P 602







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This generator set is available with CE certification.

3 Phase Ratings, 50 Hz, PF 0,8

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kW	kVA	kW	Amp
400/230	145,00	116,00	132,00	106,00	191,00

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 perod 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

- Fuel-Water Seperator Filter

- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Main line circuit breaker

CONTROL SYSTEM

- Charge Ammeter

OTHER ACCESSORIES

- 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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WAKSA POWER DIESEL

DIESEL ENGINE SPECIFICATIONS

Manufacturer		Cummins	
Model		6 BTAA 5,9-G2	
No. of Cylinders and Build		6 Cylinder, In Line	
Aspiration and Cooling		Turbo Charged and After Cooled	
Maximum Standby Power		1500 rpm 130,00 kW [174,00HP]	
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	34,40	
Intake Air Flow	m³ /min.	7,20	
Radiator Cooling Air	m³ /min.	148,00	
Exhaust Gas Flow	m³ /min.	19,70	
Start System		24 V d.c.	
Fuel Consumption	Load	%100	
	L/h	30,00	

ALTERNATOR SPECIFICATIONS

Make		Aksa
Model		AK4110
Frequency	Hz	50
Power	kVA	137,50
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Insulation Class		Н
Excitation System		Electronic (AVR)

DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 145 C	1340,00	2150,00	1000,00	1470,00	195,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD 145 C	1820.00	3320	1070	1730	195



Engine: Cummins Alternator: Aksa Control System: P 6

AKSA POWER DIESEL

P 602 - Control System



- 1 A U]b ghUhi g X]gd Um'i
- 2 8]gd`UmgWfc```ViHncb"
- 3 DU[Yf]bZcfa Uh]cbŁVi Hncb"
- 4 7 ca a cb'U'Ufa ']bX]\Whcf"
- 5 GhUhigʻ@98föj"

6

____CdYfUh]cb`gY`YWh]b[`Vihncbg"

Devices

 $8G9\~za~cXY``*\$\&\$~5i~hc~A~U]bg':~U]i~fY~Wtblfc``a~cXi~Y"\\ 6UhhYfm\W.Uf[~Yf']bdi~h'\%~,~!&*(~j~c`hžci~hdi~h'``&+z̄*~J~)~5~f&(~J~Ecf'%~ž~~J~c`h)~5~fl&J~E~ga~Yf[~Yb\Whghcd~di~g\~Vi~hhcb~UbX~Zi~gYg~Zcf~Wtblfc~`V]f\W]hg"$

Construction and Finish

7 ca dcbYbtg']bgtU'YX']b g\YYhgtYY'YbWcgi fY"'D\cgd\UltY'W\Ya]\W'zdfY!\vtUtjb['cZgfYY'`dfcj]XYg'\vtffcg]cb fYg]gtUbhigi fZU\Y''Dc`nYglYf'\vta dcg]\Y'dck XYf'tcd\vtUtiZfa g\\][\'[`cgg'UbX'YI tfYa Y`mXi fUV'Y'Z]b]g\"'@c\\UVY\UbX\\]b[YX'dUbY`Xccf'dfcj]XYg'YUgmU\\Ygg'tc'\vta dcbYbtg"

Installation

``7 cblfc``dUbY``]g'a ci bhYX'cb`VUgYZfUa Y'k]h\`ghYY``ghUbX''`@cVWhYX'Uhh\Y`f][\hg]XY'cZh\Y`[YbYfUhcf'gYhfK\Yb'mci``cc_'Uhh\Y'; Yb"GYh''Zfca '5`hYfbUhcf\

Generating Set Control Unit

H\Y`'8G9'*\$&\$`]g`U`ghUbXUfX`Wtblfc``a cXi`Y`Zcf`ci f`[YbYfUhcf`gYhg`i d`hc`&\$\$_J 5`UbX`ih\Uj Y`VYYb`XYg][bYX`hc ghUfhUbX`ghcd'X]YgY``UbX`[Ug`[YbYfUhcf`gYhg"H\Y`8G9`*\$&\$`a cXi`Y`\Ug`VYYb`XYg][bYX`hc`a cb]hcf`[YbYfUhcf`gYhg"H\Y`8G9`*\$&\$`a cXi`Y`\Ug`VYYb`XYg][bYX`hc`a cb]hcf`[YbYfUhcf ZfYei YbWhz'] c`hz`W ffYbhz'Yb[]bY`c]``dfYggi fYžWtc`UbhihYa dYfUhi fY``fi bb]b[`\ci fg`UbX``VUhhYfmij c`hg"A cXi`Y a cb]hcfg'h\Y`a U]bg`gi dd`mUbX`gk]hW\cj Yf`hc`h\Y`[YbYfUhcf`k\Yb'h\Y`a U]bg'dck Yf`ZU]`g"`H\Y`8G9*\$&\$`U`gc]bX]WUhYg`cdYfUh]cbU``ghUhi g`UbX`Zui``hWtbX]hJcbgz'5i hca UhJWU``mg\i hh]b[`Xck b`h\Y`; Yb"`GYhUbX`[]j`]b[`Hfi Y`Zffghi d`Zui``hWtbX]hJcb`cZ; Yb"`GYhZu]`i fY"H\Y`@7 8`X]gd`Um]bX]WUhYg`h\Y`Zui``h'

Standard Specifications

A]WfcdfcWfggcf Wcblfc "YX"

@7 8 X]gd Uma U_Yg]bZcfa Uh]cb YUgmhc fYUX"

(!`]bYž* (1 % &'d]l Y`X]gd`Un'i

5i hca UhjWU`mhfUbgZYfg'VYhk YYb a Ujbg'fl hj'hmk'UbX [YbYfUhcf'dck Yf"

A Ubi U`dfc[fUa a]b[cb ZfcbhdUbY`"

I qYf!Zf]YbX`mqYHi d'UbX'Vi Hncb `Unci H'

: fcbhdUbY`dfc[fUa a]b["

F Ya chy 'ghUfh'

9j Ybh`c[[]b["fl/\$kg\ck]b['XUhY 'UbX'h]a Y"

7 cblfc`g. 'Ghcd#F Yg\Thz'A Ubi U'z'5i hcz'HYghz'GHUfhz'Vi Hhcbg"'5b 'UXX]h]cbU`'di g\ Vi Hhcb'bYl hhc 'h\Y'@7 8 'X]gd`Um]g i gYX'hc 'g\\forangc''h\fci [\\'h\Y'a cXi 'Ygf'a YhYf]b['X]gd`Umg"



Engine: Cummins Alternator: Aksa

Control System:

WAKSA POWER DIESEL

Instruments

9b[]bY gdYYX" C]`dfYggi fY" 7 cc`Ubhhya dyfUhi fy" Fib'ha Y" 6UhhYfmj c`hg" 7 cb2][i fUV`Y`h]a]b[" ; 9B9F5HCF Jc`HU[Y`f@l@z`@lBŁ" 7 i ffYbhf@%@&!@ Ł" : fYei YbWm A5₽G Jc`hu[Y`f@l@z@lBŁ" : fYei YbWm A U]bg fYUXm A U]bg'YbUV'YX" Yb" GYhfYUXm ; Yb"'GYhYbUV'YX"

Options

: `YI]V`Y`gYbgcf`WUb`VY`W&blfc``YX`k]h\ 'hYa dYfUhi fYž dfYggi fYždYfWbhU[Y'fk Ufb]b[#g\i hXck b#YYWf]WU\'hf]dL @cWUrgYht]b[dUfUa YhYfg UbX a cb]hcf]b[Zfca D7 hc Weblfc`acXi Yk]h\IG6 WebbYWfcbfaUl *ahz"

Protection Circuits

K 5FB+B; 7\Uf[Y'ZU]`i fY" 6UhnYfm@ck #][\ 'j c'hU[Y" : U) hc ghcd" @ck #][\ [YbYfUhcf j c`hU[Y" I bXYf#cj Yf [YbYfUhcf ZiYei YbVhh Cj Yf'# bXYf'gdYYX" @ck 'c] 'dfYggi fY" < | \ \Wcc\UbhhYa dYfUh fY" G<I H'8CK BG : U] hc ghUfh 9a Yf[YbWnghcd" @ck c]`dfYggi fY" <][\`Wcc`UbhHYa dYfUhi fY" Cj Yf'# bXYf'gdYYX" I bXYf#cj Yf'[YbYfUhcf'ZfYei YbWh'i I bXYf#cj Yf [YbYfUhcf j c`hU[Y" C]`dfYggi fY`gYbgcf`cdYb" 7 cc`Ubh`hYa dYfUhi fY`gYbgcf`cdYb" 9@97 HF *=*7 5@ HF ±D ; YbYfUhcficj YfiWi ffYbhi

Standards

9`YWf]WU``GUZYhm#9A7`WtadUhjV]`]hm6G`9B`*\$-)\$ 9`YWfjWU``Vi g]bYgg``Yei]da Ybh' 6G 9B * \$\$\$! * ! & 9A 7]a a i b]hmghUbXUfX" 6G 9B * \$\$\$! *!(9A 7 Ya]gg]cb ghUbXUfX"

Static Battery Charger

`6UHYfmV%Uf[Yf`]g`aUbiZUM1fYX`k]h\`gk]hW]b[!acXY`UbX`GA8`HVW\bc`c[mUbX`ih\Ug`\][\`YZZMbYWH`6UHYfmW\Uf[Yf a cXY`gfici hdi hJ!=\\\UUV\Yf]gh]\\Jg'j Yfm\\CgY nc gei UfY UbX`ci hdi h]g') 'Ua dYfz'% z, 'J 'Zcf'\\g' j c'hUbX &+z' 'J 'Zcf'\(\) #bdi h%, '!'&*('j c`h57"'Dfc`]bY'&(\$) '\Ug'Z' ``mci hdi hg\chV\/fVV]hdfch'V\/f]cb'UbX'ih\V\/b'VY'i gYX'Ug'U'\/V ffYbhgci f\\/V"Dfc`]bY'\&\\$) '\X\Uf[Yf`\Ug'\][\ YZZ\\/Y\bV\/hz`cb[``]Z\z``ck 'Z\J]i fY'f\Uh\z`][\ hk\Y][\ hi\UbX`ck \\Y\Uhf\UX]\UhYX']b UWW/fXUbW/k]h."]bYUf'UhYfbUl'ij Yg"H\Y'W\Uf[Yf']g'Z]hYX'k]h. U'dfchYWjcb'X]cXY'UWfcgg'h\Y'ci hdi H'7 cbbYWkW\Uf[Yf]g'Z]hYX'k $\text{fY UmWc} \text{['VYhk YYb dcg]h]} \text{['Y cihdi h'UbX'7: 'cihdi h'UhX'Yei]} \text{[ddYX'k]} \text{[h} \text{[F:=]} \text{[hYf hc fYXi W' Y YWhf]} \text{("bc]} \text{[yY fUX]} \text{[UhX'Xei]} \text{[h]} \text{[word head of head$ zfca 'h.Y'XYj [W'"; Uj Ub[Wu`m]qc`UhYX [bdi hUbX'ci hdi hhnd[Wu`m(_J zcf\][\fY]UV[]hm'



Engine: Cummins Alternator: Aksa

Control System:







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 Lockable, large doors o each side

7 Base frame -tank

8 Lifting Points

Introduction

Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet event 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, 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
Lenght	mm.	3320
Height	mm.	1730
Fuel Tank Capacity	L	195