

APG 100

Engine : PSI - GM
 Alternator : Mecc Alte
 Control System : P 732 control system



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

Rated Power, 3 Phase, 50 Hz, PF 0,8

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kW	kVA	kW	Amp
400/230	100.00	80.00	90.00	72.00	130.00

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.

Standart Specification

- Heavy duty, water cooled natural gas engine
- 46/50 °C ambient rated radiator with mechanical fan
- Protective grille for fan and rotating parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine jacket cooling 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 belows supplied separately
- Static battery charger
- Manual for use and installation

Optional Equipments

ENGINE

- Remote Radiator Cooling
- Low Coolant level alarm

ALTERNATOR

- Anti-Condensation heater
- Over sized alternator

WISE ACCESSORIES

- Enclosure: weater protective or sound attenuated
- Four Pole Contactor

CONTROL SYSTEM

- Earth fault, single set
- Charging ammeter

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● Natural Gas Powered Engine Specification

Manufacturer	PSI - GM	
Model	881 L	
No. Of Cylinders and Build	8 Cylinder V Type	
Aspiration and Cooling	Naturally Aspirated	
Maximum Standby Power	1500 rpm	73.0kW[HP]
Total Displacement	L	8.800
Bore and Stroke	mm	108 x 111
Compression Ratio	8,1:1	
Rated Speed	rpm	1500
Governor	Electronic	
Fuel Consumption / 100%	m ³ /h	24,5
Gas Pressure	mbar	35-50
Oil Capacity	L	8
Absorbed Air Discharge	m ³ /min.	5
Disposal Air	m ³ /sec	2
Exhaust Gas Flow	m ³ /min.	12
Exhaust Back Pressures (max) mm-SS	mm - ss	1200
Exhaust Gas Temperatures	° C	491
Emitted Heat	kW	15
Electricity System	12	

● Alternator Specification

Manufacturer	Mecc Alte	
Model	ECP 34-2S	
Power	kW	84
Design	Brushless, 4 poles	
Cos fi	1	
Phase	3	
Voltage	V	400/230
5_ia	A	122
Stator	2 / 3 steps	
Excitation System	Electronic (AVR)	

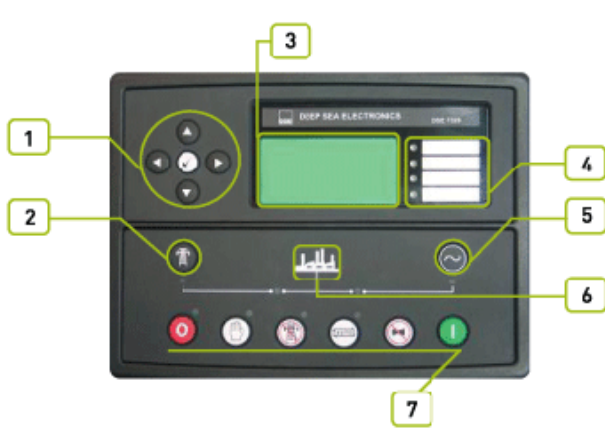
● Dimensions and Weight

Open Type	Dry Weight	Lenght	Width	Height
	kg.	mm.	mm.	mm.
APG 100	1235	2200	1100	1300
Sound Attenuated Type	Dry Weight	Lenght	Width	Height
	kg.	mm.	mm.	mm.
AK 40	1720	3110	1060	1750

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P 732 control system - Control System



- 1 Menu navigation buttons
- 2 Close mains button
- 3 Main Status and instrumentation display
- 4 Alarm LED's
- 4 Close generator button
- 5 Status LED's
- 6 Operation selecting buttons

Devices

DSE, model 7320 Auto Mains Failure control module
 Static battery charger 5A, 220/240 volt
 Emergency stop push button and fuses for control circuits

Structure And Paint

Components installed in sheet steel enclosure. Phosphate chemical, pre-coating of steel provides corrosion resistant surface
 Polyester composite powder topcoat forms high gloss and extremely durable finish
 Lockable hinged panel door provides for easy component access

Montage

Control panel is mounted generating set baseframe on robust steel stand or power module.
 Located at side of generating set with properly panel visibility.

Generator Control Unit

H.Y.'8G9+' &\$'V&bfca cXi 'Y'j'g'U'g'f'ubXUFX'UXX]hcb'hc'ci f['YbYfU'cf'gYhg'Z'ca' (&) \$_J 5'i dk UFXg'UbX'ih\Uj 'Y'VYYb XYg] bYX'hc'g'U'f'ubX'ghcd'X]Yg' 'UbX[Ug['YbYfU]b['gYhg'h,Uh]bW' XY'Y'YV'fcb]WUbX' bcb'Y'YV'fcb]WYb[']bYg" H\Y 8G9+' &\$']bW' XYg' H\Y' UXX]hcbU' 'W'dUV]']mcZVY]b['UV'Y'hc'a cb]hc'f'U'a U]bg'f'f' h]'m'gi dd'm'UbX']g' H\Y'fY'Z'fY gi]HUV'Y'Z'f'V&bfca']b['U'g'f'ubX'Vm['YbYfU]b['gYh]b'V&b' b'V'fcb'k']h' 'Ub'Ui' hca' U]W'f'ubg'Z'f'gk']h'W' "H\Y'8G9+' &\$'U'gc]bX]W'fY'g'cd'Y'f'U]hcbU' 'g'f'U'h' g'UbX'Z'ji' h'V&bX]hcbg'Z'Ui' hca' U]W' 'mg'i' h]b['X'ck' b' H\Y' ['YbYfU]b['gYh'UbX']bX]W'f]b[Z'ji' 'hg'V'ma' Y'Ub'g'cZ]hg' @7 8'X]gd'U'm'cb' H\Y' Z'fcbhd'UbY'"

Microprocessor controlled
 132 x 64 pixel LCD display makes information easy to read
 Front panel programming and also via PC software
 Soft touch membrane keypad and five key menu navigation
 Remote communications via RS232, RS485 and ethernet and SMS messaging
 Event logging (50) showing date and time
 Multiple date and time engine exercise mode and maintenance scheduler

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Indicator

- ENGINE
- Engine speed
- Oil pressure
- Coolant temperature
- Run time
- Battery volts
- Engine maintenance due
- GENERATOR
- Voltage (L-L, L-N)
- Current (L1-L2-L3)
- Frequency
- Earth current
- kW
- Pf
- kVAr
- kWh, kVAh, kVArh
- Phase sequence
- MAINS
- Voltage (L-L, L-N)
- Frequency

Protection

- WARNING
- Charge failure
- Battery under voltage
- Fail to stop
- Low fuel level (opt.)
- kW over load
- Negative phase sequence
- PRE-ALARMS
- Low oil pressure
- High engine temperature
- Low engine temperature
- Over /Under speed
- Under/over generator frequency
- Under/over generator voltage
- ECU warning
- SHUT DOWNS
- Fail to start
- Emergency stop
- Low oil pressure
- High engine temperature
- Low coolant level
- Over /Under speed
- Under/over generator frequency
- Under/over generator voltage
- Oil pressure sensor open
- Phase rotation
- ELECTRICAL TRIP
- Earth fault
- kW over load
- Generator over current
- Negative phase sequence

Optional Properties

- High oil temperature shut down
- Low fuel level shut down
- Low fuel level alarm
- High fuel level alarm
- EXPANSION MODULES
- Editional LED module (2548)
- Expension relay module (2157)
- Expansion input module (2130)

Standards

- Electrical Safety / EMC compatibility
- BS EN 60950 Electrical business equipment
- BS EN 61000-6-2 EMC immunity standard
- BS EN 61000-6-4 EMC emission standard

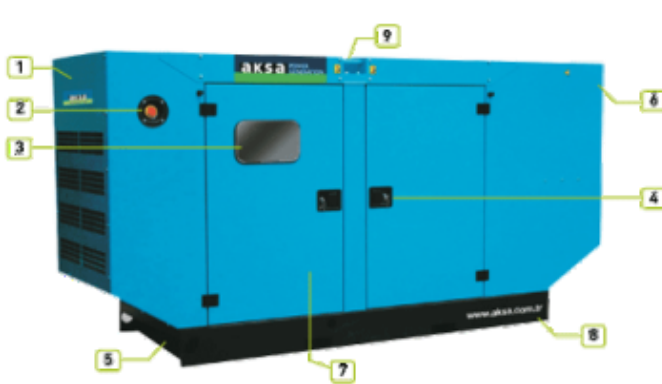
Electronic Charge Equipment

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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 Lockable, large doors o each side
- 7 Sound proof foam metarial
- 8 Base frame -tank
- 9 Lifting Points

Introduction

Sound-attenuated and weather protective enclosures for generating sets from Akxa, 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.

Standart Specification

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.

Canopy Model		AK 40
Width	mm.	1060
Lenght	mm.	3110
Height	mm.	1750