Continuous 950kW

Natural Gas Genarating Sets Powered

APG 1000

Engine : PERKINS
Alternator : MECC ALTE
Control System : P CM control system

ISO 8528	This generator set has been designed to meet ISO 8528 regulation.
SZUTEST	This generator set is manufactured in facilities certified to ISO 9001.
CE	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

	Continuous Rating (CRP)	Continuous Rating (CRP)	
Voltage	kVA	kW	Amp
400/230	1187	950.00	1714.00

Continuous Rating (CRP):

Applicable for supplying power to varying electrical load for unlimited hours. CRP is in accordance with ISO 8528.
No overload capability.

- With Radiator
- Low Coolant level alarm
- Oil heater

Optional Equipments

ALTERNATOR

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

VISE ACCESSORIES

- Manual oil drain pump
- Electrical oil drain pump
- Enclosure: weater protective or sound attenuated
- Duct adapter (on radiator)
- Inlet and outlet motorised louvers
- Tool kit for maintenance
- 500/2.000/10.000 hours maintenance kit
- Four Pole Contactor

CONTROL SYSTEM

- Automatic synchronising and power control system (multi gen-set Parallel)
- Paralel system with mains.
- Remote annunciator panel
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charging ammeter

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Natural Gas Powered Engine Specification

Manufacturer		Perkins
Model		4016-61TRS2
Aspiration and Cooling		Turbo Charged and Air to water Charged Cooled
Maximum Continuous Power	1500 d/dk	1042kWm
Total Displacement and Number of Cylinder	L	61,12 - 16V
Bore and Stroke	Bore and Stroke	160 x 190
Compression Ratio		12 : 1
Rated Speed	rpm	1500
Governor		Electronic
Fuel Consumption	m³/h	273 ±5% (methane number above 80)
Gas Pressure	mbar	50 - 250
Oil Capacity	L	286
Water Capacity	L	95 engine jacket and intercooler
Lube oil Consumption	g / kWh	0,25g/kWh (At 100% Load)
Exhaust Backpressure	mmH2O	400
Exhaust Gas Flow	m³/h	12420
Exhaust Gas Tempratures	° C	468
NOx Emission		234ppm

Alternator Specification

Manufacturer		Mecc Alte
Model		ECO43 - 2L
Power	kW	1040
Design		Brushless, 4-pole
Cos fi		0.8
Phase		3
Voltage	V	400/230
Current	A	1876
Insulation Class		H
Stator		2 / 3 steps
Excitation System		Brushless excitation system with static exciter

Diemensions and Weight

Open Type	Dry Weight	Lenght	Width	Height
	kg.	mm.	mm.	mm.
APG 1000	9880	5500	1950	2450
Sound Attenuated Type	Dry Weight	Lenght	Width	Height
	kg.	mm.	mm.	mm.
AK98	14080	9000	2270	3200

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COMAP CONTROL MODULE

GeCon controllers provide comprehensive generator protection and control for single or multiple gen-sets based on field proven InteliGenNT and InteliSysNT platforms. With GeCon software installed the primary function of the controller is to manage and protect the generator in preference to the engine, which is not a direct concern, and as such, can be used in applications where engine management or protection is not required or in cases where the generator is powered by another source such as a turbine controlled by an external PLC.

Two versions of the GeCon software are available (land-based or marine applications) allowing customers to select a tailored solution for their application. There is also the option to modify certain parameters for critical applications.
A built-in synchronizer and digital isochronous load sharer allows for a total integrated solution for gen-sets in standby, island parallel or mains parallel. The GeCon allows parallel operation of up to 32 gen-sets in one group with power management and load sharing.
For critical applications, it is possible to arrange the controllers so a ‘hot-standby’ controller takes over the generator protection and control in case of failure of the main controller.
A powerful graphic display with userfriendly controls allows any user, whatever their ability to find the information they need.

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Benefits

-Excellent configurability enables users to customise to the needs of their application
-Option to read information from ECU
-Power management over various engines from different producers
-Configurable protections
-Optional set the frequency by step 0,1 Hz
-Choice of communication options ensures easy remote supervising and servicing
-Optional redundant ´hot standby´ controller guarantees uninterrupted generator control in case of failure of the primary controller
-Built-in PLC functions remove the need for an external PLC controller
-Perfect price/performance ratio
-Gen-set performance log for easy problem tracing
-Blackout start of engines1)
-Running of SPI and SPtM applications without dongle2

Generator Monitoring and Control

-Independent engine controller
(e.g. InteliDrive DCU) is required
-Generator measurement: U, I, Hz, kW, kVAr, kVA, PF, kWh, kVAhr
-Bus/Mains measurement: U, I, Hz, kW, kVAr, kVA, PF
-Auto and Test operational modes
-Automatic Load sharing and Power management in MINT applications3)
-Automatic synchronizing and Voltage control in Auto mode
-Power management: kW, kVA or % load based – in Auto mode
-Baseload, Import/Export, Peak shaving
-All binary/analog inputs are configurable for various protection types

Generator Protections

- 3 phase generator over/under voltage
- 3 phase generator over/under frequency
-Generator overload, Short current and IDMT overcurrent
-Voltage and current unbalance4), Bus voltage unbalance4), Reverse power4), Earth fault current protection4), ROCOF4)
-Additional 160 user configurable generator and bus/mains protections

Electronic Charge Equipment

Battery charger is manufactured with switching-mode and SMD technology and it has high efficincy.
Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 24 volt DC. Input 198 - 260 volt AC. 2405 has fully output shot circuit protection and it can be used as a current source.
2405 charger has high efficiency, long life, low failure rate, light weight and low heat radiated in accordance with linear alternatives.
The charger is fitted with a protection diode across the output. Charge fail output is available. Connect charge fail relay coil between positive output and CF output.

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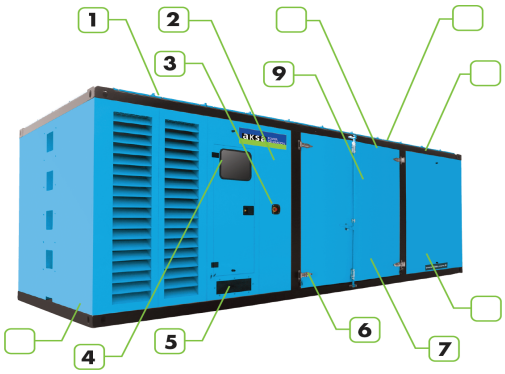
AK 98 - Canopy



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 Exhaust system in the canopy
7 Lockable, large doors o each side

Introduction

Sound-attenuated and Weather-protective Enclosures 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 (300 - 1100kVA) 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-ssembled, 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 aproved by the notified body Szutest

Canopy Model		AK98
Width	mm.	2270
Lenght	mm.	9000
Height	mm.	3200

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