INTRODUCTION

Aksa power generation system, providing optimum performance, and reliability, for stationary standby, prime power, and continuous duty applications. All generator sets are factory build, and production tested.

Certificate

TS ISO 8528

CE

SZUTEST

2000/14/EC

General Characteristics

Model Name	ALG 33
Frequency (Hz)	50
Fuel Type	Natural Gas
Engine Made and Model	LOVOL NG - 1004NG
Alternator Made and Model	Mecc Alte - ECP 28-VL/4 A
Control Panel Model	DSE 6120
Canopy	AK30 -ALG33

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.

3 Phase, 50 Hz, PF 0.8

Voltage	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kVA	kW	kVA	kW	
400/231	33	26.4	30	24.0	47.63

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 8528-1. Overload is not allowed.

PRIME RATING (PRP): Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528-1. 10 % overload capability is available for a period of 1 hour within 12-hour perod of operation.

ENGINE SPECIFICATIONS

Engine		LOVOL NG
Engine Model		1004NG
NO. OF CYLINDERS AND BUILD		4 cylinders - in line
BORE AND STROKE	**mm**	100 X 127
TOTAL DISPLACEMENT	**L**	3.99
Aspiration		Naturally Aspirated

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.

COMPRESSION RATIO		10.0:3
RATED SPEED (RPM)	**d/dk**	1500
OIL CAPACITY	**L**	8.1
Standby Power (kW/HP)		30/33
Block Heater QTY		1
Block Heater Power (Watt)		750
Fuel Type		Natural Gas
Operating Voltage (Vdc)		12 Vdc
Battery and Capacity (Qty/Ah)		1x55
Cooling Method		Water Cooled
Coolant Capacity (engine only / with radiator) (lt)		/21,6

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.

Air Filter		Dry Type
Fuel Cons. Prime With %100 Load (m^3/hr)		6,2

ALTERNATOR SPECIFICATIONS

Manufacturer		Mecc Alte
Alternator Made and Model		ECP 28-VL/4 A
Frequency (Hz)	**Hz**	50
Power (kVA)	**kVA**	30
Design		Brushless
Voltage	**V**	400
Phase		3
A.V.R.		DSR
Voltage Regulation	**(+/-)**	1
Insulation System		H

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.

Protection		IP23
Rated Power Factor		0.8
WEIGHT COMP. GENERATOR (Kg)		162
COOLING AIR (m^3/min)	**m^3**	5.3

SIZE and WEIGHT

Open Type	**DRY WEIGHT (kg.) (kg.)**	**LENGTH (mm.)**	**WIDTH (mm.)**	**HEIGHT (mm.)**	**TANK CAPACITY (lt.) (Lt.)**
		1780	950	1190	
CANOPY	**DRY WEIGHT (kg.) (kg.)**	**LENGTH (mm.)**	**WIDTH (mm.)**	**HEIGHT (mm.)**	**TANK CAPACITY (lt.) (Lt.)**
AK30 -ALG33	1020	2470	950	1451	N/A

Devices

- DSE, model 6120 Auto Mains Failure control module.
- Battery charger input 198-264 volt, output 27,6 V 5 A (24 V) or 13,8 Volt 5A (12V)
- Emergency stop push button and fuses for control circuits.

Construction and finish

- 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 and hinged panel door provides easy access to components.

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.

Installation

Control panel is mounted on baseframe with steel stand. Located at the right side of the generator set (When you look at the Gen.Set. from Alternator)

GENERATING SET CONTROL UNIT

The DSE 6120 module has been designed to monitor generator frequency, volt, current, engine oil pressure, coolant temperature running hours and battery volts.
Module monitors the mains supply and switch over to the generator when the mains power fails.
The DSE6120 also indicates operational status and fault conditions, Automatically shutting down the Gen. Set and giving true first up fault condition of Gen. Set failure.The LCD display indicates the fault.

Стандартные функции

- Microprocessor controlled.
- LCD display makes information easy to read.
- Automatically transfers between mains (utilty) and generator power.
- Manual programming on front panel.
- User-friendly set-up and button layout.
- Remote start.
- Event logging (50) showing date and time.
- Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to scroll through the modules' metering displays.

Измерительные приборы

ENGINE

- Engine speed.
- Oil pressure.
- Coolant temperature.
- Run time.
- Battery volts.
- Configurable timing.

GENERATOR

- Voltage (L-L, L-N).
- Current (L1-L2-L3).
- Frequency.
- Gen. Set ready.
- Gen. Set enabled.

MAINS

- Mains ready.

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.

● Mains enabled.

Схема защиты

WARNING

● Charge failure.
● Battery Low/High voltage.
● Fail to stop.
● Low /High generator voltage.
● Under /Over generator frequency.
● Over /Under speed.
● Low oil pressure.
● High coolant temperature.

SHUT DOWNS

● Fail to start.
● Emergency stop.
● Low oil pressure.
● High coolant temperature.
● Over /Under speed.
● Under/over generator frequency.
● Under/over generator voltage.
● Oil pressure sensor open.
● Coolant temperature sensor open.

ELECTRICAL TRIP

● Generator over current.

Опционные особенности

● Flexible sensor can be controlled with temperature, pressure, percentage (warning/shutdown/electrical trip)
● Local setting parameters and monitoring from PC to control module with USB connection (max 6 mt).

Стандарты

● Elecrical 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.

STATIC BATTERY CHARGER

● Battery charger is manufactured with switching-mode and SMD technology and ıt has high efficiency.
● Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 13,8 V for 12 volt and 27,6 V for 24 V . Input 198 - 264 volt AC.

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.

- The charger is fitted with a protection diode across the output.
- Connect charge fail relay coil between positive output and CF output.
- They are equipped with RFI filter to reduce electrical noise radiated from the device.
- Galvanically isolated input and output typically 4kV for high reliability.

STANDARD SPECIFICATIONS

CANOPY MODEL		AK30 -ALG33
WIDTH	**mm.**	950
LENGTH	**mm.**	2470
HEIGHT	**mm.**	1451
TANK CAPACITY (lt.)	**Lt.**	N/A

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.