Standby 110 kVA

Diesel Generating Sets

AC 110

Engine : Cummins
Alternator : Mecc Alte
Control System : P 602

ISO8528	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 according to EU noise legislation 2000/14/EC

3 Phase Ratings, 50 Hz, PF 0,8

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kw	kVA	kw	Amp
400/230	110,00	88,00	100,00	80,00	144,00

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(for open sets)
Static battery charger
Manual for application and installation
Generators Sets' voltage and frequency regulation comply with ISO 8528-5
Generators Sets' can take 100% load at one step according to NFPA110

OPTIONAL EQUIPMENTS

ENGINE

- Remote Radiator Cooling
- Electronic governor control
- Fuel-Water Seperator Filter
- Low water level alarm
- Oil heater

ALTERNATOR

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

CONTROL SYSTEM

- Remote annunciator panel
- Earth fault, single set
- Charge Ammeter

OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Low and high fuel level alarm
- Residential silencer
- Enclosure: weater protective or sound attenuated
- Duct adapter (on radiator)
- Inlet and outlet motorised louvers
- Inlet and outlet acoustic baffles
- Trailer
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Double wall chassis
- Supplied with oil and coolant - 30 °C
- Battery isolating switch
- Main Fuel Tank

TRANSFER SWITCH

- Three or four pole contactor
- Three or four pole motor operated circuit breaker

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DIESEL ENGINE SPECIFICATIONS

Manufacturer		Cummins		
Model		6BTA 5,9-G5		
No. of Cylinders and Build		6 Cylinder, In Line		
Aspiration and Cooling		Turbo Charged and After Cooled		
Maximum Standby Power		1500 rpm 102,00 kw [137,00HP]		
Total Displacement	L	5,900		
Bore and Stroke	mm	102 x 120		
Compression Ratio		17,6:1		
Rated Speed (rpm)	rpm	1500		
Governor		Electronic		
Oil Capacity	L	16,40		
Coolant Capacity	L	19,80		
Intake Air Flow	m³ /min.	7,86		
Radiator Cooling Air	m³ /min.	216,00		
Exhaust Gas Flow	m³ /min.	21,42		
Exhaust Gas Temperature	° C	533,00		
Start System		12 V d.c.		
Fuel Consumption	Load	%100	%75	%50
	L/h	25,00	18,00	12,00

ALTERNATOR SPECIFICATIONS

Make		Mecc Alte
Model		ECP34 - 2S/4
Frequency	Hz	50
Power	kVA	105,00
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Insulation Class		H
Temperature		H
Stator		2 / 3 steps
Rotor		Single Bearing System, Flexible Disc
Excitation System		Electronic (AVR)

DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AC 110	1250,00	2150,00	1050,00	1563,00	240,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 40	1600	3100	1113	1741	240

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AKS 08092015
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P 602 - Control System

1 ƀMain status display.
2 ƀDisplay scroll button.
3 ƀPage(information) button.
4 ƀCommon alarm indicator.
5 ƀStatus LED's.
6 ƀOperation selecting buttons.

Devices

ƀDSE, model 6020 Auto Mains Failure control module.
ƀBattery charger input 198-264 volt , output 27,6 V 5 A (24 V) or 13,8 Volt 5A (12V)
ƀEmergency stop push button and fuses for control circuits.

Construction and Finish

ƀComponents 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.

Installation

ƀ 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

ƀThe DSE 6020 is a standard control module for our generator sets up to 200kVA and ƈt has been designed to start and stop diesel and gas generator sets. The DSE 6020 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 DSE6020 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.

Standard Specifications

ƀMicroprocessor controlled.
ƀLCD display makes information easy to read.
ƀ4-line, 64 x 132 pixel display.
ƀAutomatically transfers between mains (utilty) and generator power.
ƀManual programming on front panel.
ƀUser-friendly set-up and button layout.
ƀƀRemote start.
ƀEvent logging (5)showing date and time.
ƀControls: 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.

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Instruments

ENGINE
ÞEngine speed.
ÞOil pressure.
ÞCoolant temperature.
ÞRun time.
ÞBattery volts.
ÞConfigurable timing.
GENERATOR
ÞVoltage (L-L, L-N).
ÞCurrent (L1-L2-L3).
ÞFrequency.
MAINS
ÞVoltage (L-L, L-N).
ÞFrequency.
ÞMains ready.
ÞMains enabled.
ÞGen. Set ready.
ÞGen. Set enabled.

Protection Circuits

WARNING
ÞCharge failure.
ÞBattery Low/High voltage.
ÞFail to stop.
ÞLow /High generator voltage.
ÞUnder/over generator frequency.
ÞOver /Under speed.
ÞLow oil pressure.
ÞHigh coolant temperature.
SHUT DOWNS
ÞFail to start.
ÞEmergency stop.
ÞLow oil pressure.
ÞHigh coolant temperature.
ÞOver /Under speed.
ÞUnder/over generator frequency.
ÞUnder/over generator voltage.
ÞOil pressure sensor open.
ÞCoolant temperature sensor open.
ELECTRICAL TRIP
ÞGenerator over current.

Options

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

Standards

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

Static Battery Charger

Þ Battery charger is manufactured with switching-mode and SMD technology and ët 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. Proline 2405 has fully output shot circuit protection and ët can be used as a current source. Proline 1205/2405 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. 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.

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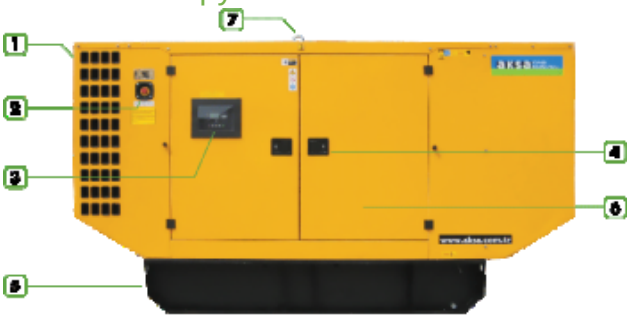
AK 40 - Canopy



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. Sound proof foam metarial
7. Lifting Points

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 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

Width	mm.	1113
Lenght	mm.	3100
Height	mm.	1741
Fuel Tank Capacity	L	240

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