Standby 40 kVA

Natural Gas Genarating Sets Powered

AGM 40

Engine : GM
Alternator : Mecc Alte
Control System : P 72 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.

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

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kW	kVA	kW	Amp
400/230	40.00	32.00	36.00	29.00	52.00

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.

Standart Specification

Heavy duty, water cooled naturalgas 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

VISE 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		GM
Model		643
No. Of Cylindirs and Build		6 Cylinder V Type
Aspiration and Cooling		Naturally Aspirated
Maximum Standby Power	1500 d/dk	36.0kW[HP]
Total Displacement	L	4.3000
Bore and Stroke	Bore and Stroke	102 x 88
Compression Ratio		9,4:1
Rated Speed	rpm	1500
Governor		Electronic
Fuel Consumption	m³/h	11
Gas Pressure	mbar	35-50
Oil Capacity	L	5
Absorbed Air Discharge	m³ /dk.	2
Disposal Air	m³ /san	2
Exhaust Gas Flow	m³ /dk.	6
Exhaust Back Pressures (max) mm-SS	mm - ss	1200
Exhaust Gas Tempratures	° C	491
Emitted Heat	kW	10
Electricity System		12

Alternator Specification

Manufacturer		Mecc Alte
Model		ECO 32-3S/4
Power	kW	40
Design		Brushless, 4 poles
Cos fi		1
Phase		3
Voltage	V	400/230
Akım	A	57
Stator		2 / 3 steps
Excitation System		Electronic (AVR)

Diemensions and Weight

Open Type	Dry Weight	Lenght	Width	Height
	kg.	mm.	mm.	mm.
	650	1900	900	1300
Sound Attenuated Type	Dry Weight	Lenght	Width	Height
	kg.	mm.	mm.	mm.
	840	2500	970	1570

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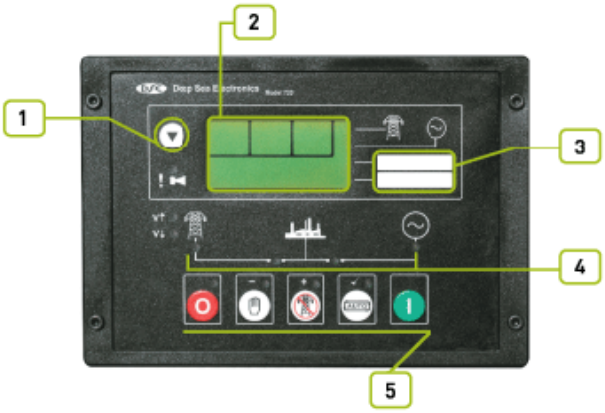
P 72 Control System - Control System



1. LCD display scroll button
2. LCD display
3. Additional alarm / Status LED's
4. Status LED's
4. Operation selecting buttons

Devices

DSE, model 720 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.
Located at side of generating set with properly panel visibility.

Generator Control Unit

DSE 720
The DSE 720 conrol module is a standard addition to our generator sets up to 250kVA and it have been designed to start and stop diesel and gas generating sets. The DSE 720 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 DSE720 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LCD display on the front panel.

Microprocessor controlled
LCD display makes information easy to read
Black-lit character/icon LCD display
Transfer between mains (utilty) and generator power
On-site module configuration and remote configuration (max 100 meters) using PC software
User-friendly set-up and button layout
Front panel programming
Remote start
Multiple engine parameters are monitored simultaneously
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

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Indicator

ENGINE
Engine speed
Oil pressure
Coolant temperature
Run time
Battery volts
GENERATOR
Voltage (L-N)
Current (L1-L2-L3)
Frequency
MAINS
Voltage (L-L, L-N)

Protection

WARNING
Battery charge failure
Low battery voltage

SHUT DOWNS
Fail to start
Emergency stop
Low oil pressure
High engine temperature
Over /Under speed
Under/over generator frequency
Failed to reach loading voltage
Failed to reach loading frequency
ELECTRICAL TRIP
Generator over current

Optional Properties

High oil temperature shut down
Low fuel level alarm
High fuel level alarm
Low coolant level

Standards

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 for the industral environment

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, 12 volt DC. Input 198 - 260 volt AC.
1205 has fully output shot circuit protection and it can be used as a current source.
1205 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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ASM 4. - 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
8. Base frame -tank
9. 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.

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		ASM 4.
Width	mm.	970
Lenght	mm.	2500
Height	mm.	1570

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