

Engine: Doosan 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.

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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	428.00	342.00	387.00	309.00	559.00

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.

Optional Equipments

ENGINE

- Low Coolant level alarm
- Oil heater

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
- 1500/3000 hours maintenance kit
- Supplied with oil and coolant 30 °C
- Automatic transfer switch

ALTERNATOR

- Anti-Condensation heater
- Over sized alternator
- Single Phase (4 lead)
- Main line circuit breaker

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		Doosan
Model		GV222TI
Aspiration and Cooling		Turbo Charged and After Cooled
Maximum Standby Power	1500 d/dk	385.0kW[516.0HP]
Total Displacement	L	523.00
Bore and Stroke	Bore and Stroke	128 x 142
Compression Ratio		10,5 : 1
Rated Speed	rpm	1500
Governor		Electronic
Fuel Consumption	m³/h	95,2
Gas Pressure	mbar	70 - 300
Oil Capacity	L	73
Water Capacity	L	285
Absorbed Air Discharge	m³ /dk.	30
Disposal Air	m³ /san	670,00
Exhaust Gas Flow	m³ /dk.	48
Exhaust Gas Tempratures ° C		490
Electricity System		24 Vdc

Alternator Specification

Manufacturer	Mecc Alte	
Model		ECO40 - 1S/4B
Power	k VA	400
Design	Brushless, 2 poles	
Cos fi	0,80	
Phase		3
Voltage	V	400/230
5_ïa	A	599
Insulation Class	H	
Stator	2 / 3 steps	
Excitation System	Electronic (AVR)	

Diemensions and Weight

Open Type	Dry Weight	Lenght	Width	Height
	kg.	mm.	mm.	mm.
ADG 428	4730	3580	1800	2040
Sound	Dry Weight	Lenght	Width	Height
Attenuated	kg.	mm.	mm.	mm.
Type				
MS 86	5 67 0	5410	186 0	2650



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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
- 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

Comonents 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

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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

kWh, kVAh, kVArh Phase sequence MAINS

kVAr

Voltage (L-L, L-N) Frequency

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)

• 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

Standards

Generator over current Negative phase sequence

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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MS 86 - Canopy



Steel structures

Emergency stop push button

Control panel is right side of the set.

Corrosion-resistant locks and hinges

Sump drains valves

Exhaust system in the canopy

Lockable, large doors o each side

Sound proof foam metarial

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.

Standart Specification

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		MS 86
Width	mm.	1860
Lenght	mm.	5410
Height	mm.	2650