

| | |
|-------------------|---|
| 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

| Voltage | Standby Rating (ESP) | | Prime Rating (PRP) | | |
|---------|----------------------|--------|--------------------|--------|--------|
| | kVA | kW | kVA | kW | Amp |
| 400/230 | 410,00 | 328,00 | 375,00 | 300,00 | 541,00 |

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 period 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
- Static battery charger
- Manual for application and installation



● DIESEL ENGINE SPECIFICATIONS

| | | | | |
|----------------------------|----------------------|--------------------------------|-------|-------|
| Manufacturer | | Doosan | | |
| Model | | P158LE-1 | | |
| No. of Cylinders and Build | | 8-cylinder, V - Type | | |
| Aspiration and Cooling | | Turbo Charged and After Cooled | | |
| Maximum Standby Power | | 1500 rpm | | |
| | | 362,00 kW [485,00HP] | | |
| Total Displacement | L | 14,600 | | |
| Bore and Stroke | mm | 128 x 142 | | |
| Compression Ratio | | 15,0:1 | | |
| Rated Speed (rpm) | rpm | 1500 | | |
| Governor | | Electronic | | |
| Oil Capacity | L | 21,00 | | |
| Coolant Capacity | L | 88,50 | | |
| Intake Air Flow | m ³ /min. | 23,50 | | |
| Radiator Cooling Air | m ³ /min. | 410,00 | | |
| Exhaust Gas Flow | m ³ /min. | 59,50 | | |
| Exhaust Gas Temperature | ° C | 520,00 | | |
| Start System | | 24 V d.c. | | |
| Fuel Consumption | Load | %100 | %75 | %50 |
| | L/h | 78,70 | 58,40 | 40,00 |

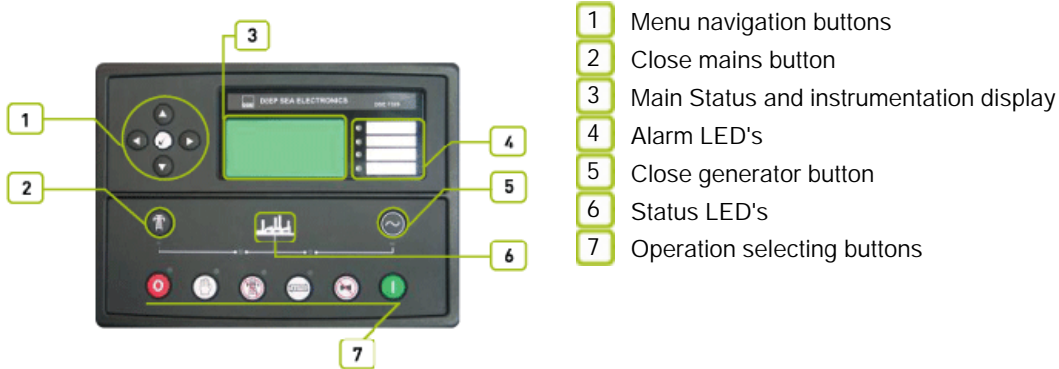
● ALTERNATOR SPECIFICATIONS

| | | |
|-------------------|-----|--------------------------------------|
| Make | | Mecc Alte |
| Model | | ECO 40-1S/4 |
| Frequency | Hz | 50 |
| Power | kVA | 400,00 |
| Design | | Brushless, 4 poles |
| Cos Phi | | 0,80 |
| Phase | | 3 |
| Voltage | V | 400/230 |
| Current | A | 577,00 |
| Insulation Class | | H |
| Temperature | | H |
| Stator | | 2 / 3 steps |
| Rotor | | Single Bearing System, Flexible Disc |
| Excitation System | | Electronic (AVR) |

● DIEMENSIONS AND WEIGHT

| Canopy | Dry Weight | Lenght | Width | Height | Tank Capacity |
|--------|------------|--------|-------|--------|---------------|
| | kg. | mm. | mm. | mm. | L |
| MS 70 | 4024 | 4400 | 1560 | 2360 | 700 |

1 P 732 control system - Control System



- 1 Menu navigation buttons
- 2 Close mains button
- 3 Main Status and instrumentation display
- 4 Alarm LED's
- 5 Close generator button
- 6 Status LED's
- 7 Operation selecting buttons

2 Devices

DSE, model 7320 Auto Mains Failure control module
Static battery charger
Emergency stop push button and fuses for control circuits

3 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 hinged panel door provides for easy component access

4 Installation

Control panel is mounted generating set baseframe on robust steel stand or power module.
Located at side of generating set with properly panel visibility.

5 Generating Set Control Unit

The DSE 7320 control module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel and gas generating sets that include electronic and non electronic engines. The DSE 7320 includes the additional capability of being able to monitor a mains (utility) supply and is therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch. The DSE 7320 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.

Standard Specifications

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
Engine block heater control.
Controls; stop, manual, auto, test, start, mute lamb test/transfer to generator, transfer to mains, menu navigation.

● Instruments

- 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
- kVAr
- kWh, kVAh, kVArh
- Phase sequence
- MAINS
- Voltage (L-L, L-N)
- Frequency

● Protection Circuits

- WARNING
- Charge failure
- Battery under voltage
- Fail to stop
- Low fuel level (opt.)
- kW over load
- Negative phase sequence
- Loss of speed signal
- 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
- Generator over current
- Negative phase sequence

● Options

- 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)

● Standards

- 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

● Static Battery Charger

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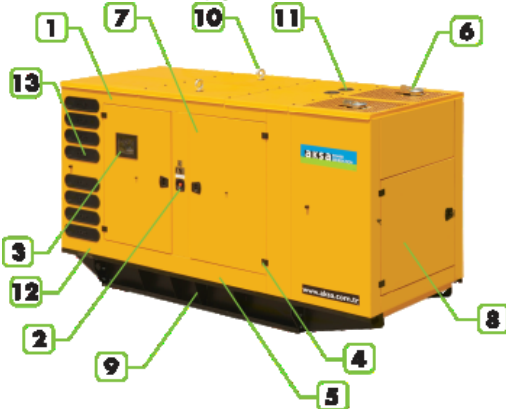
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MS 70 - Canopy



- 1 Steel structures.
- 2 Emergency stop push button.
- 3 Control panel is mounted on the baseframe . Located at the right side of the generator set.
- 4 Corrosion-resistant locks and hinges.
- 5 oil could be drained via valve and a hose
- 6 Exhaust system in the canopy.
- 7 special large access doors for easy maintenance
- 8 in front and back side special large access doors for easy maintenance
- 9 Base frame -fuel tank.
- 10 Lifting points similar to ISO container , located on each top corner of the canopy
- 11 the canopy provides easy access to radiator cap.
- 12 sound proofing materials
- 13 Plastic air intake pockets.

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 approved by the notified body Szutest

| | | |
|--------------------|-----|------|
| Width | mm. | 1560 |
| Lenght | mm. | 4400 |
| Height | mm. | 2360 |
| Fuel Tank Capacity | L | 700 |

THE GENERATOR SALES & SERVICING COMPANY LTD

☎ [01208 832094](tel:01208832094) ✉ info@generatorsas.co.uk

