





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.

Power (kVA) 3 Phase,60 Hz, PF 0.8

Voltage	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kW	kVA	kW	kVA	
380/220	198,40	248,00	180,00	225,00	376,81
208/120	200,80	251,00	183,20	229,00	696,73
480/277	200,00	250,00	184,00	230,00	696,73

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.

General Characteristics

Model Name	AD 251-6
Frequency (Hz)	60
Fuel Type	Diesel
Engine Made and Model	HYUNDAI P086 TI - 60Hz
Alternator Made and Model	ECO 38-1M/4 C - 60Hz
Control Panel Model	DSE 7320
Canopy	AK 50

ENGINE SPECIFICATIONS

ENGINE SPECIFICATIONS	
Engine	HYUNDAI
Engine Model	P086 TI - 60Hz
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	111
Stroke (mm.)	139
Displacement (lt.)	8.071
Aspiration	Turbo Charged and Intercooled (Air to Air)
Compression Ratio	16.4:1
RPM (d/dk)	1800
Oil Capacity (Total With Filter) (It)	15.5
Standby Power (kW/HP)	223/299
Block Heater QTY	1
Block Heater Power (Watt)	1500
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	Zexel P inline





Governor System		1. Steel structures
Operating Voltage (Vdc) 24 Vdc Battery and Capacity (Qty/Ah) 2x85 Charge Alternator (A) 45 Cooling Method Water Cooled Cooling Method 250 Coolant Capacity (engine only / with radiator) (It) 14/46 Air Filter Dry Type Fuel Cons. Prime With %100 Load (It/hr) 50.6 Fuel Cons. Prime With %50 Load (It/hr) 37.7 Fuel Cons. Prime With %50 Load (It/hr) 25.1 ALTERNATOR CHARACTERISTICS Manufacturer Mecc Alte Alternator Made and Model ECO 38-1M/4 C - 60H2 Frequency (Hz) 60 Power (k/A) 270 Voltage (V) 480 Phase 3 A.V.R. DSR Voltage Regulation (+/-)1% Insulation System H Protection IP23 Rated Power Factor 0.8 WEIGHT COMP, GENERATOR (Kg) 600 COOLING AIR (m²/min) 39 Open Gen.Set Dimensions (mm) LENGTH LENGTH <td>TANK CAPACITY (It.)</td> <td>380</td>	TANK CAPACITY (It.)	380
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		2x85
Governor System Electronic	Operating Voltage (Vdc)	24 Vdc
	Governor System	Electronic

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice. (11.12.2023)

2. Emergency stop push button3. 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.

Control Panel

Control Module	DSE	
Control Module Model	DSE 7320	
Communication Ports	MODBUS	
	 Menu navigation buttons Close mains button Main Status and instrumentation display Alarm LED's Close generator button Status LED's Operation selecting buttons 	

Devices

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

CONSTRUCTION and FINISH

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

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.

GENERATING SET CONTROL UNIT

The DSE 7320 conrol module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel andgas 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 DSE7320 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.
- Event logging (50) showing date and time

aksa POWER GENERATION

AD 251-6



- Multiple date and time engine exercise mode and maintenance scheduler
- Engine block heater control.
- Controls; stop, manuel, 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

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

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 it has high efficincy.

Battery charger models' output V-I characteristic is very close to square

2405 has fully output shot circuit protection and it can be used as a current source.

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.







Charge fail output is available.

Connect charge fail relay coil between positive output and CF output.

Input: 196-264V.

Output: 27,6V 5A or 13,8V 5A.

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

OPTIONAL EQUIPMENTS

TRANSFER SWITCH

- Motor Switch
- Four Pole Contactor
- Three Pole Contactor

OTHER ACCESSORIES

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

CONTROL SYSTEM





- Remote communication with modem
- Alarm output relays
- Charge Ammeter
- Earth fault, single set
- Transition synchronization with mains
- Automatic synchronising and power control system (multi gen-set

Parallel)

- Remote relay output
- Remote annunciator panel

ENGINE

- Oil heater
- Fuel-Water Seperator Filter

ALTERNATOR

- PMG excitation + AVR
- Main line circuit breaker
- Anti-Condensation Heater
- Over sized alternator

AKSA CERTIFICATES

- TS ISO 8528
- CE
- SZUTEST
- 2000/14/EC