



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,50 Hz, PF 0.8

Voltage	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kW	kVA	kW	kVA	
400/231	280,00	350,00	240,00	300,00	505,20

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 period of operation.

General Characteristics

Model Name	AC 350
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	CUMMINS QSL9-G5
Alternator Made and Model	ECO 38-2L/4 C
Control Panel Model	DSE 7320
Canopy	MS 60

ENGINE SPECIFICATIONS

ENGINE OF ECITIONS	
Engine	CUMMINS
Engine Model	QSL9-G5
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	114
Stroke (mm.)	145
Displacement (lt.)	8.8
Aspiration	Turbo Charged and Charge Air Cooled
Compression Ratio	16.8:1
RPM (d/dk)	1500
Oil Capacity (Total With Filter) (It)	26.5
Standby Power (kW/HP)	310/415
Prime Power	268/359
Block Heater QTY	1
Block Heater Power (Watt)	3000
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	HPCR (High Pressure Common Rail)
Governor System	ECM
Operating Voltage (Vdc)	24 Vdc







Battery and Capacity (Qty/Ah)	2x85
Charge Alternator (A)	70
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	475
Coolant Capacity (engine only / with radiator) (It)	11/28.6
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	63
Fuel Cons. Prime With %75 Load (lt/hr)	46
Fuel Cons. Prime With %50 Load (lt/hr)	31
ALTERNATOR CHARACTERISTICS	
Manufacturer	Mecc Alte
Alternator Made and Model	ECO 38-2L/4 C
Frequency (Hz)	50
Power (kVA)	350
Voltage (V)	400
Phase	3
A.V.R.	DSR
Voltage Regulation	(+/-)1%
Insulation System	Н
Protection	IP23
Rated Power Factor	0.8
WEIGHT COMP. GENERATOR (Kg)	895
COOLING AIR (m³/min)	32
Open Gen.Set Dimensions (mm)	
LENGTH	2750
WIDTH	1300
HEIGHT	1939
DRY WEIGHT (kg.)	2665
TANK CAPACITY (It.)	470
Gen.Set Canopy Dimensions (mm)	
LENGTH	3934
WIDTH	1356
HEIGHT	2156
DRY WEIGHT (kg.)	3485
TANK CAPACITY (It.)	470
	1. Steel structures.

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice. (20.06.2022)

2. Emergency stop push button.

at the right side of the generator set.

3. Control panel is mounted on the baseframe . Located





- 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 maintanance
- 8. In front and back side special large access doors for easy maintanance
- 9. Base frame -fuel tank.
- **10.** Lifting points similar to ISO container, located on each top corner of the canopy.
- **11.** The cap on the canopy provides easy accsess to radiator cap.
- 12. Sound proofing materials
- 13. Plastic air intake pockets.

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 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
- 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
- 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

Fuel-Water Seperator Filter

Oil heater

ALTERNATOR

Anti-Condensation Heater

Over sized alternator

Main line circuit breaker

CONTROL SYSTEM

Automatic synchronising and power control system (multi gen-set Parallel)

Paralel system with mains.

Transition synchronization with mains

Remote annunciator panel







Remote relay output

Alarm output relays

Remote communication with modem

Earth fault, single set

Charge Ammeter

TRANSFER SWITCH

Three or four pole contactor

Three or four pole motor operated circuit breaker

OTHER ACCESSORIES

Main Fuel Tank

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

AKSA CERTIFICATES

- TS ISO 8528
- TS ISO 9001-2008
- CE
- SZUTEST
- 2000/14/EC