



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	500,00	625,00	450,40	563,00	949,62
480/277	500,80	626,00	452,00	565,00	0,00

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 8528-1. 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 626-6
Frequency (Hz)	60
Fuel Type	Diesel
Engine Made and Model	CUMMINS QSX15-G9 60Hz EPA Tier 2
Alternator Made and Model	ECO 40-1L/4 C - 60Hz
Control Panel Model	DSE 7320
Canopy	MS 80

ENGINE SPECIFICATIONS

Engine	CUMMINS
Engine Model	QSX15-G9 60Hz EPA Tier 2
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	137
Stroke (mm.)	169
Displacement (lt.)	14.9
Aspiration	Turbo Charged and Charge Air Cooled
Compression Ratio	17.2:1
RPM (d/dk)	1800
Oil Capacity (Total With Filter) (lt)	83.3
Standby Power (kW/HP)	563/755
Prime Power	507/680
Block Heater QTY	1
Block Heater Power (Watt)	3000
Fuel Type	Diesel
Injection Type and System	XPI
Type of Fuel Pump	HPCR (High Pressure Common Rail)



Governor System	Electronic
Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	2x120/1840
Charge Alternator (A)	30
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	764
Coolant Capacity (engine only / with radiator) (lt)	33/66
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	118
Fuel Cons. Prime With %75 Load (lt/hr)	89
Fuel Cons. Prime With %50 Load (lt/hr)	64

ALTERNATOR CHARACTERISTICS

Manufacturer	Mecc Alte
Alternator Made and Model	ECO 40-1L/4 C - 60Hz
Frequency (Hz)	60
Power (kVA)	570
Voltage (V)	400
Phase	3
A.V.R.	DER1
Voltage Regulation	(+/-)0.5%
Insulation System	H
Protection	IP23
Rated Power Factor	0.8
WEIGHT COMP. GENERATOR (Kg)	1323
COOLING AIR (m³/min)	64.8

Open Gen.Set Dimensions (mm)

LENGTH	3377
WIDTH	1550
HEIGHT	2103
DRY WEIGHT (kg.)	4185
TANK CAPACITY (lt.)	850

Gen.Set Canopy Dimensions (mm)

LENGTH	4807
WIDTH	1606
HEIGHT	2485
DRY WEIGHT (kg.)	5185
TANK CAPACITY (lt.)	850

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 cap on the canopy provides easy access 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 even 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
	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

Devices

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

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

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 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 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

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



Battery charger is manufactured with switching-mode and SMD technology and it has high efficiency.

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

2405 has fully output short 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

- Three or four pole motor operated circuit breaker
- 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
- Low and high fuel level alarm
- Electrical oil drain pump
- Automatic or manual fuel filling system



- Residential silencer
- Inlet and outlet motorised louvers
- Duct adapter (on radiator)
- Enclosure: weater protective or sound attenuated

CONTROL SYSTEM

- Remote communication with modem
- Alarm output relays
- Charge Ammeter
- Earth fault, single set
- Remote relay output
- Paralel system with mains.
- Automatic synchronising and power control system (multi gen-set Parallel)

- Remote annunciator panel
- Transition synchronization with mains

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