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
voltage	kW	kVA	kW	kVA	
380/220	920,00	1150,00	836,00	1045,00	1747,30
480/277	1015,20	1269,00	920,00	1150,00	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

Standby Power (kW/HP)

Block Heater Power (Watt)

Injection Type and System

Prime Power

Fuel Type

Block Heater QTY

Type of Fuel Pump

Model Name	AC 1269-6
Frequency (Hz)	60
Fuel Type	Diesel
Engine Made and Model	CUMMINS QST30-G4 60Hz
Alternator Made and Model	ECO 43-1M/4 A - 60Hz
Control Panel Model	DSE 7320
Canopy	AK 96
ENGINE SPECIFICATIONS	
Engine	CUMMINS
Engine Model	QST30-G4 60Hz
Number of Cylinder (L)	12 cylinders - V type
Bore (mm.)	140
Stroke (mm.)	165
Displacement (It.)	30.48
Aspiration	Turbocharged and Low Temperature Aftercooled
Compression Ratio	14.0:1
RPM (d/dk)	1800
Oil Capacity (Total With Filter) (It)	154

1111/1490

1007/1350

2

3000

Diesel

Direct

Bosch P8500 LLA

AC 1269-6



Governor System	ECM
Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	2x143
Charge Alternator (A)	35
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	1517
Coolant Capacity (engine only / with radiator) (It)	79/371
Air Filter	Dry Туре
Fuel Cons. Prime With %100 Load (lt/hr)	240
Fuel Cons. Prime With %75 Load (lt/hr)	177
Fuel Cons. Prime With %50 Load (lt/hr)	119

ALTERNATOR CHARACTERISTICS

Manufacturer	Mecc Alte
Alternator Made and Model	ECO 43-1M/4 A - 60Hz
Frequency (Hz)	60
Power (kVA)	1045
Voltage (V)	380
Phase	3
A.V.R.	DER1
Voltage Regulation	(+/-)0.5%%
Insulation System	Н
Protection	IP23
Rated Power Factor	0.8
WEIGHT COMP. GENERATOR (Kg)	2275
COOLING AIR (m ³ /min)	108
Open Gen.Set Dimensions (mm)	
I FNGTH	4400

LENGTH	4400	
WIDTH	1776	
HEIGHT	2341	
DRY WEIGHT (kg.)	7350	
TANK CAPACITY (It.)	1500	

Gen.Set Canopy Dimensions (mm)

LENGTH	7500
WIDTH	2300
HEIGHT	2508
DRY WEIGHT (kg.)	11000
TANK CAPACITY (It.)	1500
	1. Steel structure made from steel sheet and steel profiles.

2. Canopy and panels made from powder coated sheet



AC 1269-6



steel.

- 3. Emergency stop push button.
- 4. Control panel is mounted on the baseframe . Located
- at the back of the generator set
- 5. Cables out locations are under or back of the canopy.
- **6.** Corrosion-resistant locks and hinges.
- 7. Oil could be drained via valve and a hose
- 8. Exhaust system in the canopy.
- 9. Special large access doors for easy maintanance

10. Fuel tank is at front of the canopy ,easy access to the fuel tank via lockable door.

11. Lifting points similar to ISO container , located on each top corner of the canopy.

12. the cap on the canopy provides easy accesss to radiator cap.

13. sound proofing materials

14. Integrated ladder built in to side of the canopy allows access to the top of the canopy.

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

- 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

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.

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AKSA POWER GENERATION

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

AKSA POWER GENERATION





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

AKSA POWER GENERATION AC 1269-6



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
- Steel base frame and anti-vibration isolators
- Spare external fuel tank (open set)
- 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

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
- Automatic transfer switch
- Main Fuel Tank
- Supplied with oil and coolant 30 °C





- In	let and outlet motorised louvers
- Lo	ow and high fuel level alarm
- E	lectrical oil drain pump
- A	utomatic or manual fuel filling system
- D	uct adapter (on radiator)
- E	nclosure: weater protective or sound attenuated
- R	esidential silencer
CO	INTROL SYSTEM
- R	emote communication with modem
- A	larm output relays
- C	harge Ammeter
- Ea	arth fault, single set
- R	emote relay output
- Pa	aralel system with mains.
- A	utomatic synchronising and power control system (multi gen-set
Pa	rallel)
- R	emote annunciator panel
- Ti	ransition synchronization with mains
EN	GINE
- 0	il heater
- F	uel-Water Seperator Filter
- R	emote Radiator Cooling
AL	TERNATOR
- M	lain line circuit breaker
- 0	ver sized alternator
- A	nti-Condensation Heater
AKS	SA CERTIFICATES
- '	TS ISO 8528

- CE
- SZUTEST
- 2000/14/EC

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