


Power (kVA)

3 Phase, 50 Hz, PF 0.8

Voltage	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kW	kVA	kW	kVA	
400/231	288,00	360,00	261,60	327,00	519,63

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	APD 360 C
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	CUMMINS 6LTAA9.5-G1
Alternator Made and Model	AK 5280
Control Panel Model	DSE 7320
Canopy	MS 60 CK

ENGINE SPECIFICATIONS

Engine	CUMMINS
Engine Model	6LTAA9.5-G1
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	116.5
Stroke (mm.)	148
Displacement (lt.)	9.50
Aspiration	Turbo Charged and Charge Air Cooled
Compression Ratio	16.6:1
RPM (d/dk)	1500
Oil Capacity (Total With Filter) (lt)	32.4
Standby Power (kW/HP)	320/429
Prime Power	290/389
Block Heater QTY	1
Block Heater Power (Watt)	3000
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	Mechanical
Governor System	Electronic
Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	2x85
Cooling Method	Water Cooled



Cooling Fan Air Flow (m3/min)	708
Coolant Capacity (engine only / with radiator) (lt)	11.1/65.1
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	70
Fuel Cons. Prime With %75 Load (lt/hr)	52
Fuel Cons. Prime With %50 Load (lt/hr)	35

ALTERNATOR CHARACTERISTICS

Manufacturer	Aksa
Alternator Made and Model	AK 5280
Frequency (Hz)	50
Power (kVA)	3500
Voltage (V)	400
Phase	3
A.V.R.	MX341
Voltage Regulation	(+/-)%1%
Insulation System	H
Protection	IP22
Rated Power Factor	0.8
WEIGHT COMP. GENERATOR (Kg)	1024
COOLING AIR (m³/min)	48

Open Gen.Set Dimensions (mm)

LENGTH	2840
WIDTH	1300
HEIGHT	1845
DRY WEIGHT (kg.)	2750
TANK CAPACITY (lt.)	470

Gen.Set Canopy Dimensions (mm)

LENGTH	3963
WIDTH	1356
HEIGHT	2171
DRY WEIGHT (kg.)	3480
TANK CAPACITY (lt.)	470

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
	<ol style="list-style-type: none">1. Menu navigation buttons2. Close mains button3. Main Status and instrumentation display4. Alarm LED's5. Close generator button6. Status LED's7. 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 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

kVA_r

kWh, kVAh, kVA_rh

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)
Expansion 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

- No Data

OPTIONAL EQUIPMENTS

No Data

AKSA CERTIFICATES

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