



Power (kVA) 3 Phase,50 Hz, PF 0.8

Voltage	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kW	kVA	kW	kVA	
400/231	176,00	220,00	160,00	200,00	317,55

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	APD 220 A
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	AKSA A6CRX97TI
Alternator Made and Model	AK 4160
Control Panel Model	DSE 6020
Canopy	ASM 7

ENGINE SPECIFICATIONS

LITORITE OF LOW TOATIONS	
Engine	AKSA
Engine Model	A6CRX97TI
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	126
Stroke (mm.)	130
Displacement (lt.)	9,73
Aspiration	Turbo Charged and Intercooled(Water to Air)
Compression Ratio	16.5:1
RPM (d/dk)	1500
Oil Capacity (Total With Filter) (It)	16
Standby Power (kW/HP)	252/338
Block Heater QTY	1
Block Heater Power (Watt)	1500
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	P pump
Governor System	Electronic
Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	2x120
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	450



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Coolant Capacity (engine only / with radiator) (It)	/65
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	54.1
Fuel Cons. Prime With %75 Load (lt/hr)	40.6
Fuel Cons. Prime With %50 Load (lt/hr)	27.1
ALTERNATOR CHARACTERISTICS	
Manufacturer	Aksa
Alternator Made and Model	AK 4160
Frequency (Hz)	50
Power (kVA)	200
Voltage (V)	400
Phase	3
A.V.R.	SX440
Voltage Regulation	(+/-)1%
Insulation System	Н
Protection	IP22
Rated Power Factor	0.8
WEIGHT COMP. GENERATOR (Kg)	626
COOLING AIR (m³/min)	30.84
Gen.Set Canopy Dimensions (mm)	
LENGTH	3918
WIDTH	1463
HEIGHT	2163
DRY WEIGHT (kg.)	2980
TANK CAPACITY (lt.)	526
	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 (When you look at the
	Gen.Set. from Alternator)
	4. oil could be drained via valve and a hose
	5. Exhaust system in the canopy.
	6. special large access doors (marine type) for easy
	maintanance
	7. Base frame -fuel tank.
	8. Lifting points similar to ISO container , located on each top
	corner of the canopy.
INTRODUCTION	9. Sound proofing materials.
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 (8 - 275kVA) fit directly to the open generator set to 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 6020
	1. Main status display.
	2. Display scroll button.
	3. Page(information) button.
	4. Common alarm indicator.
	5. Status LED's.
	6. Operation selecting buttons.
Dovices	

Devices

- -DSE, model 6020 Auto Mains Failure control module.
- -Battery charger input 198-264 volt, output 27,6 V 5 A (24 V) or 13,8 Volt 5A (12V)
- -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 and hinged panel door provides easy access to components.

INSTALLATION

Control panel is mounted on baseframe with steel stand. Located at the right side of the generator set (When you look at the Gen.Set. from Alternator)

GENERATING SET CONTROL UNIT

The DSE 6020 is a standard control module for our generator sets up to 200kVA and it has been designed to start and stop diesel and gas generator sets.

The DSE 6020 module has been designed to monitor generator frequency, volt, current, engine oil pressure, coolant temperature running hours and battery volts.

Module monitors the mains supply and switch over to the generator when the mains power fails.

The DSE6020 also indicates operational status and fault conditions, Automatically shutting down the Gen. Set and giving true first up fault condition of Gen. Set failure. The LCD display indicates the fault.

STANDARD SPECIFICATIONS

- Microprocessor controlled.
- -LCD display makes information easy to read.
- -4-line, 64 x 132 pixel display.
- -Automatically transfers between mains (utilty) and generator power.
- -Manual programming on front panel.
- -User-friendly set-up and button layout.
- -Remote start.
- -Event logging (5)showing date and time.
- -Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to scroll through the modules' metering displays.

Instruments



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ENGINE

- -Engine speed.
- -Oil pressure.
- -Coolant temperature.
- -Run time.
- -Battery volts.
- -Configurable timing.

GENERATOR

- -Voltage (L-L, L-N).
- -Current (L1-L2-L3).
- -Frequency.

MAINS

- -Voltage (L-L, L-N).
- -Frequency.
- -Mains ready.
- -Mains enabled.
- -Gen. Set ready.
- -Gen. Set enabled.

WARNING

- -Charge failure.
- -Battery Low/High voltage.
- -Fail to stop.
- -Low /High generator voltage.
- -Under/over generator frequency.
- -Over /Under speed.
- -Low oil pressure.
- -High coolant temperature.

SHUT DOWNS

- -Fail to start. -Emergency stop.
- -Low oil pressure.
- -High coolant temperature.
- -Over /Under speed.
- -Under/over generator frequency.
- -Under/over generator voltage.
- -Oil pressure sensor open.
- -Coolant temperature sensor open.

ELECTRICAL TRIP

-Generator over current.





Options

- -Flexible sensor can be controlled with temperature, pressure, percentage (warning/shutdown/electrical trip)
- -Local setting parameters and monitoring from PC to control module with USB connection (max 6 mt).

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 efficiency.

Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 13,8 V for 12 volt and 27,6 V for 24 V. Input 198 - 264 volt AC.

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

Proline 1205/2405 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.

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

They are equipped with RFI filter to reduce electrical noise radiated from the device.

Galvanically isolated input and output typically 4kV for high reliability.

STANDARD SPECIFICATIONS

- No Data

OPTIONAL EQUIPMENTS

No Data

AKSA CERTIFICATES

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