



INTRODUCTION

Aksa power generation system, providing optimum performance, and reliability, for stationary standby 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	160,00	200,00	145,60	182,00	288,68

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 200 A
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	AKSA A6CRX71TI
Alternator Made and Model	AK 4150
Control Panel Model	DSE 6120
Canopy	ACP 6B

ENGINE SPECIFICATIONS

Engine	AKSA
Engine Model	A6CRX71TI
Number of Cylinder (L)	6 cylinders - in line
Bore (mm.)	110
Stroke (mm.)	125
Displacement (lt.)	7.13
Aspiration	Turbo Charged and Intercooled(Water to Air)
Compression Ratio	17:1
RPM (d/dk)	1500
Oil Capacity (Total With Filter) (lt)	16
Standby Power (kW/HP)	182/247.45
Prime Power	166/225.7
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

Manufacturer reserves the right to make change in the model, technical specifications, color, equipment, accessories and images without prior notice. (03.05.2023)





Battery and Capacity (Qty/Ah)	2x80
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	190
Coolant Capacity (engine only / with radiator) (lt)	9,55/38
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	42.5

ALTERNATOR CHARACTERISTICS

Manufacturer	Aksa
Alternator Made and Model	AK 4150
Frequency (Hz)	50
Power (kVA)	187.5
Voltage (V)	400
Phase	3
A.V.R.	SX440
Voltage Regulation	(+/-)1%%
Insulation System	H
Protection	IP22
Rated Power Factor	0.8
WEIGHT COMP. GENERATOR (Kg)	580
COOLING AIR (m³/min)	30,84

Gen.Set Canopy Dimensions (mm)

LENGTH	3265
WIDTH	1163
HEIGHT	1858
DRY WEIGHT (kg.)	2180
TANK CAPACITY (lt.)	271

INTRODUCTION

Sound-attenuated and Weather-protective Enclosures 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 6120
Communication Ports	CANBUS

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 6120 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 6120 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 DSE6120 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.
- Automatically transfers between mains (utility) and generator power.
- Manual programming on front panel.
- User-friendly set-up and button layout.
- Remote start.
- Event logging (50) 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

ENGINE

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

GENERATOR

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





-Frequency.

-Gen. Set ready.

-Gen. Set enabled.

MAINS

-Mains ready.

-Mains 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

-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 and output is 5 amper, 13,8 V for 12 volt and





27,6 V for 24 V . Input 198 - 264 volt AC.

- 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

- Heavy duty, 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
- Two bearing, class H alternator
- Industrial exhaust silencer and steel bellows supplied separately
- Static battery charger
- Manual for application and installation

OPTIONAL EQUIPMENTS

ENGINE

Fuel-Water Separator Filter

Low water level alarm

Oil heater

ALTERNATOR

Anti-Condensation Heater

Main line circuit breaker

CONTROL SYSTEM

Earth fault, single set

Charge Ammeter

TRANSFER SWITCH

Three Pole Contactor

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





Enclosure: weater protective or sound attenuated

Trailer

Tool kit for maintenance

AKSA CERTIFICATES

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

