



AKSA Power Generation has been producing industrial generator sets with an innovative compact design and excellence in quality for over 30 years. AKSA has been providing reliable power through three main production plants and over 15 branch offices worldwide.



General Characteristics

Model Name APDZZUA Frequency / PF 5UHZ, 1500 rpm, 0.8pf	Model Name	APD220A	Frequency / PF	50Hz, 1500 rpm, 0.8pf
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Engine Make & Model Aksa A6CRX88TI Alternator Make Aksa

Control Panel Model DSE 6020 Base Frame / Enclosure AKSA ASM7

Genset Rating - 50Hz, 15000rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
A6CRX88TI	AK4160	400 / 230V	220kVA	200kVA	317A

Stand-by Power (Maximum): Power available at variable load in the event of main power network failure. No over load is permitted. Prime Power: Power available at variable load in lieu of a main power network. Overload of 10% is permitted for 1 hour in every 12 hours of operation. The above ratings represent the engine performance capabilities to conditions specified in accordance with ISO 8528/5 & ISO3046.

Derating may be required for conditions outside of the test conditions.

Codes & Standards

The Generator set is designed and manufactured in a facility certified to **ISO9001** standards.

The Generator set is designed and manufactured in a facility certified to ISO14001:2015 standards.

AKSA Power Generation provides **single source responsibility** for the generator set & accessories.

The generator set, with its components, are prototype tested and production tested









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Engine Data		Electric System	
Manufacturer	Aksa	Engine Cranking Motor	24V
Model	A6CRX88TI	Engine Battery Charge System	Negative Ground
Displacement	8.82L	Battery Qty, Rating, CCA	2 x 120Ah
Cylinders	6 In-line	Buttery Qty, running, corr	Z X IZOM
Engine Standby Power	192 kWm	Cooling System	
Engine Speed	1500 rpm	Coolant Capacity – Engine only	23 liters
Aspiration	Turbocharger & Aftercooler	Thermostat Range	76 – 95 °C
Compression Ratio	17.5: 1	Max Top Tank Temperature	99 °C
Bore / Stroke	120 mm / 130 mm	Coolant intake size	Ф45 mm
Governor	Electronic	Coolant outlet size	Ф45 mm
Direction of Rotation	Anti-clockwise (viewed on flywheel)		
Firing Order	1-5-3-6-2-4	Exhaust System	
Combustion Cycle	Four stroke, compression ignition	Max Back Pressure	6 kPA
Steady State Speed Stability at Constant Load	$\pm 0.25\%$	Manifold Insulation	Not Acceptable
Total Weight (engine only - dry)	1000 ±20 kg	Turbocharger Insulation	Not Acceptable
Sound Pressure	≤ 117 dBA		
Fuel System		Lubrication System	
Type of Injection	Direct Injection	Oil Type	CF - 4
Fuel Injection Pump	P	Oil Capacity	24 L
Fuel Oil Type	O# or 10#	Oil temp max to Bearings	115 °C
		Oil Pressure @ Governed Speed	294 ~ 490 kPA
Fuel Consumption		Energy Balance	
Standby Power (110%)	47.1 L/h	Energy in Fuel	37790 btu/min
Prime Power (100%)	42.5 L/h	Gross Heat to Power	14122 btu/min
Prime Power (75%)	32.0 L/h	Energy to Coolant & Oil	10573 btu/min
Prime Power (50%)	21.5 L/h	Energy to Exhaust	12198 btu/min
Prime Power (25%)	11.5 L/h	Heat to Radiation	846 btu/min

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APD220A



Alternator Data		Controller Data
Manufacturer	Aksa	Manufacturer DSE
Standards	BS EN 60034	Model 6020
Control System	Self Excited	Type Auto Mains Failure Control
A.V.R.	SX460	
Voltage Regulation	\pm 1.5 %	Controller Features & Benefits
Insulation System	Class H	Microprocessor controlled
Protection	IP22	License free PC Software
Rated Power Factor	0.8	IP65 rating offers increased resistance to water ingress
Stator Winding	Double Layer Concentric	Front Panel Editing
Winding Pitch	Two Thirds	Event log
Winding Leads	12	Back-lit icon LCD display
Telephone Interference	THF < 2 %	LED and LCD alarm indication
Waveform Distortion	No Load < 1.5 %	Power save mode
Maximum Over speed	2250 rev/min	PC and front panel configuration
	==00 101/mm	Configurable timers and alarms
Battery Charger & Elect	rical System Data	Alternative configuration
Manufacturer	AKSA	Three phase generator monitoring
Model	SmartGen BACo6A	
Input Voltage	100V ~ 250V AC	Current monitoring and protection
Output Voltage / Current	27,6V DC / 3A	Power monitoring (kW, kVA, kVAr)
		Reverse power (kW & kVAr) protection
Jacket Water Heater Da	ta	Three phase utility monitoring
Manufacturer	AKSA	Test feature
Model	HTR1500W 100-120F	Battery voltage monitoring
Input Voltage	1 ph, based on gen voltage	Hours counter
Power	1500W	Comprehensive warning or shutdown on fault condition

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Enclosure Features

✓ Heavy Duty Steel Structure

✓ E-Stop on Enclosure

Control Panel Eliminated from Engine Vibrations

- ✓ Control Panel Window
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges
- ✓ Internally Mounted Exhaust System with Rain Cap
- ✓ Coolant Fill Cap
- ✓ Base Frame Lifting Hooks
- ✓ Base Fuel Tank and Forklift Pockets
- ✓ Easy Access for Maintenance
- ✓ Sound Absorb High Density Foam

Open Skid Gen-Set Dimensions

Length 2900 mm

Width 1400 mm

Height 2045 mm

Dry Weight 2645 kg

Tank Capacity 526 L

Enclosed Gen-Set Dimensions

Length 3900 mm

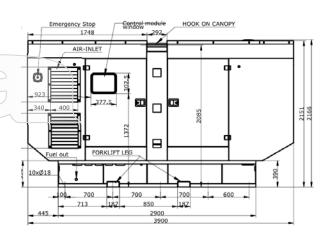
Width 1463mm

Height 2166 mr

Dry Weight 3080 kg

Tank Capacity 526 L

Sound Pressure @ 7 meters 82 dB(A)



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Standard Features & Accessories	Optional Accessories
✓ Heavy Duty Steel Base Frame	☐ Main Line CB (3 / 4 Poles)
✓ Integral Fuel Tank, Single Wall	□ PMG
✓ Fuel Drain Plug	□ Voltage Regulation ±0.5% w/MX321 AVR
✓ Control Panel Window	☐ Anti-condensation Heater
✓ Engine Jacket Water Heater	24 hours Capacity Base Fuel Tank
✓ Battery and Battery Rack	☐ Fuel Level Display & Alarm on Controller
✓ Battery Charger	☐ Low / High Fuel Alarms
✓ Radiator fill cap on enclosure	☐ Fuel Water Separator Filter
✓ Anti Vibration Pads between Engine/Alternator & Base Frame	□ Auto Fuel Fill Control System
✓ Residential Grade Silencer Inside Enclosure	☐ Oil Temperature Display on Controller
✓ Industrial Grade Silencer Set for Open Skid Sets	☐ Manual Speed Adjust Rheostat
✓ Sound Absorb Foam for Enclosure	☐ Manual Voltage Adjust Rheostat
✓ Air Inlet & Outlet Rodent Guards	☐ Remote Annunciator Panel
✓ Oil Drain Valve	☐ Remote Control & Monitoring Panel
✓ Coolant Drain Valve	☐ Advanced SMS Messaging
✓ Flex Fuel Lines	□ Control Panel Heater
✓ Air Filter Restriction Gauge	□ Battery Disconnect Switch
✓ Engine Manifold Cover	☐ Battery Heater
✓ Turbocharger Cover	☐ 10A Battery Charger
✓ Protection Covers for Rotating Parts	☐ Battery Charge Ammeter
✓ Exhaust Insulation Cover	☐ Tool Kit for Maintenance
✓ Control Panel Window	Power Plug Outlet Kit
✓ Operations Manual	Automatic Transfer Panel (ATS) – Contactor Design
✓ 24 Months / 2000 hours Limited Standby Warranty	☐ Automatic Transfer Panel (ATS) – Changeover Design

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