



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 APD16A Frequency / PF 50Hz, 1500 rpm, 0.8pf

Engine Make & Model Aksa A3CRX14 Alternator Make Aksa

Control Panel Model DSE 6020 Base Frame / Enclosure AKSA ANS1

Genset Rating - 50Hz, 1500rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Standby Current
A3CRX14	AK109	400 / 230V	11.5kVA	10.6kVA	16A

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**









^{*}Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

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Engine Data		Electric System		
Manufacturer	Aksa	Engine Cranking Motor	12V	
Model	A3CRX14	Engine Battery Charge System	50A, Negative Ground	
Displacement & Cylinders	1.357 L / 3 Cylinders	Battery Qty, Rating, CCA	1 x 36Ah	
Engine Speed	1500rpm	buttery &ty, reating, 0011	1 X 00/111	
Engine Standby Power	12.8 kW / 17.16 HP	Cooling System		
Engine Prime Power	11.7 kW / 15.68 HP	Coolant Capacity	18.5 L	
Aspiration	Naturally Aspired	Max Coolant Friction Head External to Engine -1500rpm	13 kPA	
Compression Ratio	18:1	Thermostat Range	76 – 85 °C	
Bore / Stroke	80 mm / 90 mm	Min Pressure Cap	48 kPA	
Governor	Mechanical	Max Top Tank Temperature	104 °C	
Piston Speed	4.5 m/s	Max 10p Tank Temperature	104 C	
Friction Horsepower	10.3 Kw	Exhaust System		
Intake Air Flow	15.5 L/s	Max Back Pressure	10 kPA	
Exhaust Gas Flow	NA	Manifold Insulation	Not Acceptable	
Exhaust Gas Temperature	470 °C	Standard Exhaust Pipe Size	48 mm	
Fuel System		Air Intake System		
Type of Injection	Direct Injection	Max Intake Air Restriction	1.87 kPa (Dirty Filter) 1.24 kPa (Clean Filter)	
Max Restriction @ Lift Pump	6 kPA (Clean Filter)	Min Dirt Holding Capacity	10 g/L/s	
Max Allowable Head on Injector Return Line	4 kPA	Max Temp Rise from Ambient to Inlet of Turbo	17 °C	
Max Fuel Pump Supply	30 L/h			
Fuel Consumption		Lubrication System		
Standby Power (110%)	4.4 L/h	Max Oil Temperature	120 °C	
Prime Power (100%)	4.0 L/h	Cil Capacity : High - Low	6-4 L	
		Min Required Lube Capacity	6.5 L	
		Max Oil Consumption	0.02 L/h	

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Alternator Data		Controller Data		
Manufacturer	Aksa	Manufacturer	DSE	
Standards	BS EN 60034	Model	6020	
Control System	Self Excited	Туре	Auto Mains Failure Control	
A.V.R.	SX460			
Voltage Regulation	\pm 1.5 %	Controller Features & Ben	efits	
Insulation System	Class H	Microprocessor controlled		
Protection	IP22	License free PC Software		
Rated Power Factor	0.8	IP65 rating offers increased resista	nce 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		
		Configurable timers and alarms		
Battery Charger & Electric	cal System Data	Alternative configuration		
Manufacturer	AKSA	Three phase generator monitoring		
Model	SmartGen BAC06A	Current monitoring and protection	ı	
Input Voltage	100V ~ 250V AC	Power monitoring (kW, kVA, kVAr)	
Output Voltage / Current	13,8V DC / 6A	Reverse power (kW & kVAr) protect	ction	
Jacket Water Heater Data		Three phase utility monitoring		
Manufacturer	AKSA	Test feature		
Model	HTR500W 100-120F	Battery voltage monitoring		
Input Voltage	1 ph, based on gen voltage	Hours counter		
Power	500W	Comprehensive warning or shutdo	wn 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

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Open Skid Gen-Set Dimensions

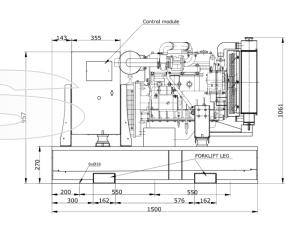
Length 1400 mm

Width 760 mm

Height 927 mm

Dry Weight 350 kg

Tank Capacity 32 L



Enclosed Gen-Set Dimensions

Length	1521 mm	Emergency stop 798.5
Width	823 mm	Air intel
Height	1127 mm	873
Dry Weight	470 kg	
Tank Capacity	32 L	
Sound Pressure @ 7 meters	67 dB(A)	21.5 200 108 427 300 1650 1679

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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 □ EBS **Fuel Drain Plug** ☐ Anti-condensation Heater Control Panel Window ☐ Single wall fuel tank – 24hours capacity **Engine Jacket Water Heater** ■ Double wall fuel tank – 24hours capacity **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 ■ Battery Disconnect Switch Air Filter Restriction Gauge **Engine Manifold Cover** ■ Battery Heater **Turbocharger Cover** ■ 10A Battery Charger **Protection Covers for Rotating Parts** ■ Battery Charge Ammeter ■ Tool Kit for Maintenance **Exhaust Insulation Cover** 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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