

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.

	www.aksa.com.tr			
General Characteristics				
Model Name	APD20A	Frequency / PF	50Hz, 1500 rpm, 0.8pf	
Engine Make & Model	Aksa A4CRX24	Alternator Make	Aksa	
Control Panel Model	DSE 6020	Base Frame / Enclosure	AKSA ASM3	
Genset Rating – 50Hz, 15000rpm, 0.8pf				
Engine Al	ternator Voltas	e Standby Power	Prime Power Standby Current	

A4CRX24	AK218	400 / 230V	20kVA	18kVA	28A
				1 11 1.1	

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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APD20A



Engine Data		Electric System	
Manufacturer	Aksa	Engine Cranking Motor	12V
Model	A4CRX24	Engine Battery Charge System	50A, Negative Ground
Displacement & Cylinders	2.545L /4 Cylinders	Battery Qty, Rating, CCA	1 x 54Ah
Engine Speed	1500rpm	Dattery Qty, Rating, CCA	1 x J4An
Engine Standby Power	21 kW / 28 HP	Cooling System	
Engine Prime Power	19 kW / 25.5 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	90 mm / 100 mm	Min Pressure Cap	48 kPA
Governor	Mechanical	Max Top Tank Temperature	104 °C
Piston Speed	5 m/s	Max Top Fairk Temperature	104 C
Friction Horsepower	15 Kw	Exhaust System	
Intake Air Flow	25.7 L/s	Max Back Pressure	10 kPA
Exhaust Gas Flow	65 L/s	Manifold Insulation	Not Acceptable
Exhaust Gas Temperature	460 °C	Standard Exhaust Pipe Size	60 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%)	5.8 L/h	Max Oil Temperature	120 °C
Prime Power (100%)	5.4 L/h	Oil Capacity : High - Low	8 – 6 L
		Min Required Lube Capacity	8.5 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 & Benefits		
Insulation System	Class H	Microprocessor controlled		
Protection	IP22	License free PC Software		
Rated Power Factor	0.8	IP65 rating offers in creased 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) protec	ction	
Jacket Water Heater Data		Three phase utility monitoring		
Manufacturer	AKSA	Test feature		
Model	HTR506W 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

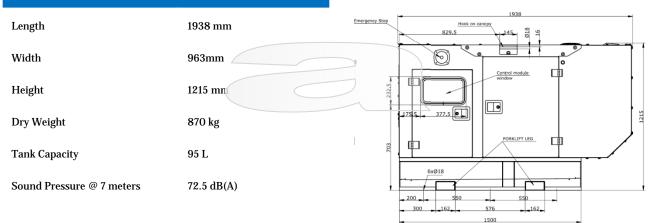
- Control Panel Eliminated from Engine Vibrations
- ✓ Plastic Covered Corrosion Resistant Locks & Hinges
- ✓ Internally Mounted Exhaust System with Rain Cap

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- ✓ Easy Access for Maintenance
- ✓ Sound Absorb High Density Foam

Open Skid Gen-Set Di	mensions	Control module
Length	1500 mm	
Width	900 mm	
Height	1061 mm	
Dry Weight	665 kg	
Tank Capacity	95 L	

Enclosed Gen-Set Dimensions



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Standard Features & Accessories	Optional Accessories
✓ Heavy Duty Steel Base Frame	B Main Line CB (3 / 4 Poles)
✓ Integral Fuel Tank, Single Wall	EBS 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
$\checkmark~$ 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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