



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 Chracteristics

Model Name APD75C-6 Frequency PF 60Hz, 1800 rpm, 0.8pf

Engine Make & Model Cummins 4BTA3.9G2 Alternator Make Stamford

Control Panel Model DSE 6020 Base Frame / Enclosure AKSA ASM4

Genset Rating – 60Hz, 1800rpm, 0.8pf

Engine	Alternator	Voltage	Standby Power	Prime Power	Prime Current
4BTA3.9G2	UCI224E	480 / 277V	74kVA	67kVA	89A
	UCI224F	380 / 222V	74kVA	67kVA	112A
	UCI224E	220 / 127V	74kVA	67kVA	194A
	UCI224F	208 / 120V	74kVA	67kVA	205A

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**













Engine Data		Electric System		
Manufacturer	Cummins	Engine Cranking Motor	24V	
Model	4BTA3.9G2	Engine Battery Charge System	40A, Negative Ground	
Displacement & Cylinders	3.9L / 4 Cylinders	Battery Qty, Rating, CCA	2 x 54Ah	
Engine Speed	1800rpm	battery &ty, Rating, COA	2 X O II III	
Engine Standby Power	55 kW / 74 HP	Cooling System		
Engine Prime Power	50 kW / 67 HP	Coolant Capacity	19.9 L	
Aspiration	Turbocharged&Aftercooled	Max Coolant Friction Head External to Engine -1500rpm	28 kPa	
Compression Ratio	17.3:1	Thermostat Range	82 -95 °C	
Bore / Stroke	102 mm / 120 mm	Min Pressure Cap	62-95 C 69 kPa	
Governor Regulation	≤ 5%	Max Top Tank Temperature	104 °C	
Piston Speed	6 m/s	Max 10p Talik Textperature	104 C	
Friction Horsepower	8.2 kW	Exhaust System		
Engine Water Flow	1.6 litre/sec.	Max Back Pressure	10 kPa	
Intake Air Flow	52 litre/sec.	Min Exhaust Pipe Size	75 mm	
Exhaust Gas Flow	134 litre/sec.	Manifold Insulation	Not Acceptable	
Exhaust Gas Temperature	548 °C	Turbocharger Insulation	Not Acceptable	
Fuel System		Air Intake System		
Type of Injection	BYC A Direct Injection	Max Intake Air Restriction	6 kPa (Dirty Element) 4 kPa (Clean Element)	
Max Restriction @ Lift Pump	102 mmHg	Min Dirt Holding Capacity	53 g/cfm	
Max Allowable Head on Injector Return Line	508 mmHg	Max Temp Rise from Ambient to Inlet of Turbo	17 °C	
Total Drain Flow	30 L/h			
Fuel Consumption		Lubrication System		
Standby Power (110%)	17.4 L/h	Max Oil Temperature	121 °C	
Prime Power (100%)	15.9 L/h	Oil Capacity : High - Low	9.5 L - 8.5 L	
Prime Power (75%)	12.2 L/h	Min Required Lube Capacity	10.9 L	
Prime Power (50%)	8.7 L/h			
Prime Power (25%)	5.5 L/h			

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

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APD75C-6



Alternator Data		Controller Data			
Manufacturer	Stamford	Manufacturer	DSE		
Standards	BS EN 60034	Model	6020		
Control System	Self Excited	Туре	Auto Mains Failure Control		
A.V.R.	AS480				
Voltage Regulation	\pm 1 %	Controller Features & Benefits			
Insulation System	Class H	Microprocessor controlled			
Protection	IP23 0.8	License free PC Software			
Rated Power Factor		IP65 rating offers increased resistance to water ingress			
Stator Winding	Double Layer Concentric	Front Panel Editing			
Winding Pitch	Two Thirds	Event log Back-lit icon LCD display LED and LCD alarm indication			
Winding Leads	12				
Telephone Interference	THF < 2 %				
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			
Input Voltage 100V ~ 250V AC		Power monitoring (kW, kVA, kVAr			
Output Voltage / Current	27,6V DC / 3A	Reverse power (kW & kVAr) protection			
		Three phase utility monitoring	ction		
Jacket Water Heater Data		Three phase utility monitoring			
Manufacturer	AKSA	Test feature			
Model	HTR500W 100-120F	Battery voltage monitoring			
Input Voltage	t 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

Open Skid Gen-Set Dimensions

Length 1860 mm

Width 900 mm

Height 1360 mm

Dry Weight 960 kg

Tank Capacity 154 L

269 450 Coderd module 6x018 FORKLIFT LEG 6x018 168 162 1860

Enclosed Gen-Set Dimensions

Length	2491 mm	967.5 967.5 98 967.5
Width	965 mm	
Height	1552 mm	Correct module violation
Dry Weight	1070 kg	
Tank Capacity	154 L	S TOSEUT US
Sound Pressure @ 7 meters	70 dB(A)	6x818 - 451 - 158 - 642 - 158
		■ 1860

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Standard Features & Accessories **Optional Accessories** ✓ Heavy Duty Steel Base Frame ☐ Main Line CB (3 / 4 Poles) Integral Fuel Tank □ PMG **Fuel Drain Plug** □ Voltage Regulation $\pm 0.5\%$ w/MX321 AVR Control Panel Window ■ Anti-condensation Heater **Engine Jacket Water Heater** ■ Double Wall 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 ■ 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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