



**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 APD75MC-6 Frequency / PF 60Hz, 1800 rpm, 1pf

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

Control Panel Model DSE 6020 Base Frame / Enclosure AKSA ASM4

#### Genset Rating - 60Hz, 18000rpm, 1pf, Single phase

Engine	Alternator	Voltage	Standby Power kVA / kW	Prime Power kVA / kW	Standby Current
4BTA3.9G2	UCI224F (Winding 06)	220 / 110V	63.9	58.1	290A

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** 









<sup>\*</sup>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	Cummins	Engine Cranking Motor	24V
Model	4BTA3.9G2	Engine Battery Charge System	40A, Negative Ground
Displacement & Cylinders	3.9L / 4 Gylinders	Battery Qty, Rating, CCA	2 x 54Ah
Engine Speed	1500rpm	Eutery quy, maning, com	2.1.0.1.11
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	<b>82</b> -95 °C
Bore / Stroke	102 mm / 120 mm	Min Pressure Cap	69 kPa
Governor Regulation	≤ 5%	Max Top Tank Temperature	104 °C
Piston Speed	6 m/s	Max 10p Tank 10mperature	104 0
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
<b>Exhaust Gas Flow</b>	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%)	14.1 L/h	Max Oil Temperature	121 °C
Prime Power (100%)	12. L/h	Oil Capacity : High - Low	9.5 L - 8.5 L
Prime Power (75%)	10.1 L/h	Min Required Lube Capacity	10.9 L
Prime Power (50%)	7.0 L/h		
Prime Power (25%)	4.3 L/h		

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Power

# APD75MC-6



Alternator Data		Controller Data		
Manufacturer	Stamford	Manufacturer	DSE	
Standards	BS EN 60034	Model	6020	
Control System	Self Excited	Type	Auto Mains Failure Control	
A.V.R.	AS480			
Voltage Regulation	$\pm$ 1 %	Controller Features & Benefits  Microprocessor controlled  License free PC Software  IP65 rating offers increased resistance to water ingress  Front Panel Editing		
Insulation System	Class H			
Protection	IP23			
Rated Power Factor	1			
Stator Winding	Double Layer Concentric			
Winding Pitch	Two Thirds			
Winding Leads	4	Back-lit icon LCD display  LED and LCD alarm indication		
Telephone Interference	THF < 2 %			
Waveform Distortion	No Load < 1.5 %	Power save mode	Power save mode	
Maximum Over speed	2250 rev/min	nin PC and front panel configuration		
		Configurable timers and alarms		
Battery Charger & Electri	cal System Data	Alternative configuration		
Manufacturer	AKSA	Three phase generator monitoring		
Model	SmartGen BAC06A	Current monitoring and protection  Power monitoring (kW, kVA, kVAr)  Reverse power (kW & kVAr) protection		
Input Voltage	100V ~ 250V AC			
Output Voltage / Current	27,6V DC / 3A			
Jacket Water Heater Data		Three phase utility monitoring		
Manufacturer	AKSA	Test feature		
Model	HTR50CW 100-120F	Battery voltage monitoring		
Input Voltage	1 ph, Based on gen voltage	Hours counter		
		Comprehensive warning or shutd	loven on fault condition	

500W

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 1860 mm

Width 900 mm

Height 1360 mm

Dry Weight 960 kg

Tank Capacity 154 L

# 269 450 Coord module 6x018 FORKLIFT LEG 6x018 162 162 1860

#### **Enclosed Gen-Set Dimensions**

 Length
 2491 mm

 Width
 965 mm

 Height
 1552 mm

 Dry Weight
 1070 kg

 Tank Capacity
 154 L

 Sound Pressure @ 7 meters
 70 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 $\pm 0.5\%$ 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 ■ 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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